



Certificate of Compliance

Certificate: 80066208

Master Contract: 151079

Project: 80203727

Date Issued: 2024-07-10

Issued To: Endress+Hauser SE+Co. KG
Hauptstrasse 1
Maulburg, Baden-Württemberg, 79689
Germany

Attention: Emil Remolana

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Anil Sodhi
Anil Sodhi

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations—
Certified to U.S. Standards

Class I, Division 1, Groups A,B,C,D ; Class II, Division 1, Groups E,F,G; Class III T6...T1
Ex db IIC T6...T1 Gb
Class I, Zone 1 AEx db IIC T6...T1 Gb

Product	Deltabar PMD55B-aabbccdefgghikkkllmn + ooppqqrrssttuuvvwwxxyyzz: where,	
	aa	(approval) CD, CF (CF is not applicable for Class II and III)
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J, M



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	e	(electrical conn.)	H
	f	(pressure type)	3, 6, 8, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	i	(installation)	alphanumeric character (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(membrane material)	A, B, Y
	m	(fill fluid)	alphanumeric character (not relevant for safety)
	n	(seal)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	oo	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	pp	(calibration cert.)	2 alphanumeric characters (not relevant for safety)
	qq	(extended nom. pressure)	GK, G9
	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	option not allowed
	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +85^{\circ}\text{C}$		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures ($T_p \leq +100^{\circ}\text{C}$).
MWP and Process Seal	MWP: up to 160 bar		Single Seal
Installation Drawing	XA01894P		



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Product	Deltabar PMD75B-aabbccdefgghikkllmn + ooppqqrrssttuuvvwwxxyyzzααββγγ: where,	
	aa	(approval) CD, CF or C1 (CF is not applicable for Class II and III)
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J, K, M, N
	e	(electrical conn.) H
	f	(pressure type) 3, 6, 8, 9
	gg	(sensor range) 7x, 9Y
	h	(calibration; unit) alphanumeric character (not relevant for safety)
	i	(installation) alphanumeric character (not relevant for safety)
	kkk	(process connection) 3 alphanumeric characters (not relevant for safety)
	l	(membrane material) A, B, C, D, Y
	m	(fill fluid) alphanumeric character (not relevant for safety)
	n	(seal) alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)
	oo	(operation language) 2 alphanumeric characters (not relevant for safety)
	pp	(membrane coating) 2 alphanumeric characters (not relevant for safety)
	qq	(application package) 2 alphanumeric characters (not relevant for safety)
	rr	(ref. accuracy) 2 alphanumeric characters (not relevant for safety)
	ss	(calibration cert.) 2 alphanumeric characters (not relevant for safety)
	tt	(extended nom. pressure) GK, GM, GQ, G9
	uu	(service) 2 alphanumeric characters (not relevant for safety)
	vv	(test, Cert, declaration) JL, JT (aa = CF only) or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approvals) 2 alphanumeric characters (not relevant for safety)
	xx	(sensor design) option not allowed
	yy	(accessory mounted) NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed) PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(regional device adaption) 2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version) 2 alphanumeric characters (not relevant for safety)
	γγ	(marking) 2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.	



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Electrical Rating	10.5...35Vdc, 4...20mA	
Enclosure Rating	Type 4X/6P, IP66/68	
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq \text{Ta} \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq \text{Ta} \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +85^{\circ}\text{C}$	Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ($\text{Tp} \leq +100^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CF only)
MWP and Process Seal	MWP: up to 420 bar	Single Seal
Installation Drawing	XA01897P (aa = CD, CF) or XA01899P (aa = C1)	

Product	Deltabar PMD78B-aabbccdefghikkkllmmmmnnnopq + rrssttuuvvwxyzzaαβγγδδεε: where,		
	aa	(approval)	CD, CF or C1 (CF is not applicable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N
	e	(electrical conn.)	H
	f	(application)	B, C, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	i	(design high pressure side)	alphanumeric character (not relevant for safety)
	kkk	(design low pressure side)	3 alphanumeric characters (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection, HP side)	3 alphanumeric characters (not relevant for safety)
	nnn	(process connection, LP side)	3 alphanumeric characters (not relevant for safety)
	o	(membrane material)	alphanumeric character (not relevant for safety)
	p	(fill fluid)	alphanumeric character (not relevant for safety)
q	(seal LP side)	alphanumeric character (not relevant for safety)	



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	+	(additional options: any number of each of the following options may be chosen)	
	rr	(operation language display)	2 alphanumeric characters (not relevant for safety)
	ss	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	tt	(application package)	2 alphanumeric characters (not relevant for safety)
	uu	(calibration)	2 alphanumeric characters (not relevant for safety)
	vv	(extended nominal pressure)	GK, G9
	ww	(service)	2 alphanumeric characters (not relevant for safety)
	xx	(test, certificate, declaration)	JL, JT (aa = CF only) or other 2 alphanumeric characters (not relevant for safety)
	yy	(additional approval)	2 alphanumeric characters (not relevant for safety)
	zz	(sensor design)	option not allowed
	aa	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ββ	(accessory enclosed)	PA or other 2 alphanumeric characters (not relevant for safety)
	γγ	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	δδ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	εε	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +125^{\circ}\text{C}$		Refer to installation drawings for additional temperature codes (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for xx=JL and -60°C for xx=JT (aa = CF only)
MWP and Process Seal	MWP: up to 420 bar		Single Seal
Installation Drawing	XA01897P (aa = CD, CF) or XA01899P (aa = C1)		

Conditions of Acceptability:



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1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. The device shall only be supplied by Class 2 or limited energy source in accordance with CSA/UL 61010-1-12.
3. Because of the risk of discharge the non-metallic parts of the equipment and of all non-metallic accessories must be protected from electrostatic charging during installation and operation.
4. For Output option bb = BC, the power consumption of the switch channel must be limited to 1W. For supply voltages above 27 VDC, a serial resistor (Rv) must be installed, if no other device (e.g. an external relay or similar) limits the current to 35 mA or less. Refer to installation drawings for minimum resistor values.

Class I, Division 1, Groups B,C,D ; Class II, Division 1, Groups E,F,G; Class III T6...T1
Ex db IIC T6...T1 Gb
Class I, Zone 1 AEx db IIC T6...T1 Gb

Product	Cerabar PMP51B-aabbcddefghiikllmmno + ppqrrssttuuvvwxyzzaa: where,		
	aa	(approval)	CD, CF (CF is not applicable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	rr	(calibration)	2 alphanumeric characters (not relevant for safety)
	ss	(service)	2 alphanumeric characters (not relevant for safety)
	tt	(test, certificate, declaration)	2 alphanumeric characters (not relevant for safety)
	uu	(additional approval)	2 alphanumeric characters (not relevant for safety)



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	vv	(sensor design)	option not allowed
	ww	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	xx	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	yy	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	zz	(firmware version)	2 alphanumeric characters (not relevant for safety)
	αα	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +125^{\circ}\text{C}$		Refer to installation drawings for additional temperature codes (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 400 bar		Single Seal
Installation Drawing	XA01891P		

Product	Cerabar PMP71B-aabbccdefghiiikllmmno + ppqrrssttuuvvwwxxyyzzaaββγγ: where,		
	aa	(approval)	CD, CF or C1 (CF is not applicable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)



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	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(operation language display)	2 alphanumeric characters (not relevant for safety)
	qq	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	rr	(application package)	2 alphanumeric characters (not relevant for safety)
	ss	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	tt	(calibration)	2 alphanumeric characters (not relevant for safety)
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, certificate, declaration)	JL, JT (aa = CF only) or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approval)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	option not allowed
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +125^{\circ}\text{C}$		Refer to installation drawings for additional temperature codes (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * lower ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CF only)
MWP and Process Seal	MWP: up to 1050 bar		Single Seal (up to 700 bar)



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Installation Drawing	XA01901P (aa = CD, CF) or XA01903P (aa = C1)
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Conditions of Acceptability:

1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. The device shall only be supplied by Class 2 or limited energy source in accordance with CSA/UL 61010-1-12.
3. Because of the risk of discharge the non-metallic parts of the equipment and of all non-metallic accessories must be protected from electrostatic charging during installation and operation.
4. For Output option bb = BC, the power consumption of the switch channel must be limited to 1W. For supply voltages above 27 VDC, a serial resistor (Rv) must be installed, if no other device (e.g. an external relay or similar) limits the current to 35 mA or less. Refer to installation drawings for minimum resistor values.

Class II, Division 1, Groups E,F,G; Class III T100°C... T150°C

Product	Deltabar PMD55B-aabbccdefgghikkllmn + ooppqqrrssttuuvvwxxyyyz: where,	
	aa	(approval) CG
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J, M
	e	(electrical conn.) H
	f	(pressure type) 3, 6, 8, 9
	gg	(sensor range) 7x, 9Y
	h	(calibration; unit) alphanumeric character (not relevant for safety)
	i	(installation) alphanumeric character (not relevant for safety)
	kkk	(process connection) 3 alphanumeric characters (not relevant for safety)
	l	(membrane material) A, B, Y
	m	(fill fluid) alphanumeric character (not relevant for safety)
	n	(seal) alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)
	oo	(ref. accuracy) 2 alphanumeric characters (not relevant for safety)
	pp	(calibration cert.) 2 alphanumeric characters (not relevant for safety)
	qq	(extended nom. pressure) GK, G9
	rr	(service) 2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration) 2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals) 2 alphanumeric characters (not relevant for safety)
	uu	(sensor design) option not allowed for aa = CG



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	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T100°C: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +100^{\circ}\text{C}$		Refer to installation drawings for additional information.
MWP	MWP: up to 160 bar		
Installation Drawing	XA01894P		

Product	Deltabar PMD75B-aabbccdefghikkkllmn + ooppqqrrssttuuvvwwxxyyyzzaaββγγ: where,		
	aa	(approval)	CG or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N
	e	(electrical conn.)	H
	f	(pressure type)	3, 6, 8, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	i	(installation)	alphanumeric character (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(membrane material)	A, B, C, D, Y
	m	(fill fluid)	alphanumeric character (not relevant for safety)
	n	(seal)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	



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	oo	(operation language)	2 alphanumeric characters (not relevant for safety)
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(application package)	2 alphanumeric characters (not relevant for safety)
	rr	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	ss	(calibration cert.)	2 alphanumeric characters (not relevant for safety)
	tt	(extended nom. pressure)	GK, GM, GQ, G9
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, Cert, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	option not allowed for aa = CG or C1
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T100°C: $-40^{\circ}\text{C}^{*} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +100^{\circ}\text{C}$		Refer to installation drawings for additional information. * lower ambient reduced to -50°C for vv=JL
MWP	MWP: up to 420 bar		Single Seal (aa = C1 only)
Installation Drawing	XA01897P (aa = CG) or XA01899P (aa = C1)		

Product	Deltabar PMD78B-aabbccdefghikkkllmmmmnnnopq + rrssttuuvvwxyzzaaββγγδδεε: where,		
	aa	(approval)	CG or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N



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e	(electrical conn.)	H
f	(application)	B, C, 9
gg	(sensor range)	7x, 9Y
h	(calibration; unit)	alphanumeric character (not relevant for safety)
i	(design high pressure side)	alphanumeric character (not relevant for safety)
kkk	(design low pressure side)	3 alphanumeric characters (not relevant for safety)
ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
mmm	(process connection, HP side)	3 alphanumeric characters (not relevant for safety)
nnn	(process connection, LP side)	3 alphanumeric characters (not relevant for safety)
o	(membrane material)	alphanumeric character (not relevant for safety)
p	(fill fluid)	alphanumeric character (not relevant for safety)
q	(seal LP side)	alphanumeric character (not relevant for safety)
+	(additional options: any number of each of the following options may be chosen)	
rr	(operation language display)	2 alphanumeric characters (not relevant for safety)
ss	(membrane coating)	2 alphanumeric characters (not relevant for safety)
tt	(application package)	2 alphanumeric characters (not relevant for safety)
uu	(calibration)	2 alphanumeric characters (not relevant for safety)
vv	(extended nominal pressure)	GK, G9
ww	(service)	2 alphanumeric characters (not relevant for safety)
xx	(test, certificate, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
yy	(additional approval)	2 alphanumeric characters (not relevant for safety)
zz	(sensor design)	option not allowed for aa = CG or C1
αα	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
ββ	(accessory enclosed)	PA or other 2 alphanumeric characters (not relevant for safety)
γγ	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
δδ	(firmware version)	2 alphanumeric characters (not relevant for safety)
εε	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.		



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Electrical Rating	10.5...35Vdc, 4...20mA	
Enclosure Rating	Type 4X/6P, IP66/68	
Temp. code, ambient (Ta) and process temp. (Tp)	T100°C: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +400^{\circ}\text{C}$	Refer to installation drawings for additional information. * lower ambient reduced to -50°C for xx=JL
MWP	MWP: up to 420 bar	
Installation Drawing	XA01897P (aa = CG) or XA01899P (aa = C1)	

Product	Cerabar PMP51B-aabbccdefghiiikllmmno + ppqrrssttuuvvwxyzzaa: where,	
	aa	(approval) CG
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J
	e	(electrical conn.) H
	f	(pressure type) 6, 8, 9
	g	(application) A, B, 9
	h	(diaphragm seal) A, D, G, M...T, Y
	ii	(sensor range) 3x, 9Y
	k	(calibration; unit) alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface) 2 alphanumeric characters (not relevant for safety)
	mmm	(process connection) 3 alphanumeric characters (not relevant for safety)
	n	(membrane material) alphanumeric character (not relevant for safety)
	o	(fill fluid) alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)
	pp	(membrane coating) 2 alphanumeric characters (not relevant for safety)
	qq	(reference accuracy) 2 alphanumeric characters (not relevant for safety)
	rr	(calibration) 2 alphanumeric characters (not relevant for safety)
	ss	(service) 2 alphanumeric characters (not relevant for safety)
	tt	(test, certificate, declaration) 2 alphanumeric characters (not relevant for safety)
	uu	(additional approval) 2 alphanumeric characters (not relevant for safety)
	vv	(sensor design) option not allowed for aa = CG



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	ww	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	xx	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	yy	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	zz	(firmware version)	2 alphanumeric characters (not relevant for safety)
	αα	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T125°C: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options.
MWP	MWP: up to 400 bar		
Installation Drawing	XA01891P		

Product	Cerabar PMP71B-aabbcd efgh iikllmmno + ppqrrssttuuvvwxyzzaaββγγ: where,		
	aa	(approval)	CG or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)



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	+	(additional options: any number of each of the following options may be chosen)	
	pp	(operation language display)	2 alphanumeric characters (not relevant for safety)
	qq	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	rr	(application package)	2 alphanumeric characters (not relevant for safety)
	ss	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	tt	(calibration)	2 alphanumeric characters (not relevant for safety)
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, certificate, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approval)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	option not allowed for aa = CG or C1
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T125°C: -40°C* ≤ Ta ≤ +65°C and -40°C ≤ Tp ≤ +80°C		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options. * lower ambient reduced to -50°C for vv=JL
MWP	MWP: up to 1050 bar		Single Seal (up to 700 bar) (aa = C1 only)
Installation Drawing	XA01901P (aa = CG) or XA01903P (aa = C1)		

Product	Cerabar PMC51B-aabbcdffgghiiikkll + mmmnooppqqrrssttuuvvww: where,		
	aa	(approval)	CG
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N



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	d	(transmitter housing; mat'l)	B, J
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	gg	(sensor range)	3x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	ii	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(seal, process connected)	D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)	
	mm	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	nn	(calibration)	2 alphanumeric characters (not relevant for safety)
	oo	(service)	2 alphanumeric characters (not relevant for safety)
	pp	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	qq	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	rr	(sensor design)	option not allowed for aa = CG
	ss	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	tt	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	uu	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	vv	(firmware version)	2 alphanumeric characters (not relevant for safety)
	ww	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T125°C: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +70^{\circ}\text{C}$		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures ($T_p \leq +125^{\circ}\text{C}$).
MWP	MWP: up to 40 bar		
Installation Drawing	XA01891P		



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Product	Cerabar PMC71B-aabbccdefghhiklllm + nnooppqrrssttuuvvwxyzz: where,	
	aa	(approval) CG or C1
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J, K
	e	(electrical conn.) H
	f	(pressure type) 6, 8, 9
	g	(application) alphanumeric character (not relevant for safety)
	hh	(sensor range) 3x, 9Y
	i	(calibration; unit) alphanumeric character (not relevant for safety)
	kk	(process connection, sealing surface) 2 alphanumeric characters (not relevant for safety)
	lll	(process connection) 3 alphanumeric characters (not relevant for safety)
	m	(seal, process connected) D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)
	nn	(operation language display) 2 alphanumeric characters (not relevant for safety)
	oo	(application package) EC or other 2 alphanumeric characters (not relevant for safety)
	pp	(reference accuracy) 2 alphanumeric characters (not relevant for safety)
	qq	(calibration) 2 alphanumeric characters (not relevant for safety)
	rr	(service) 2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration) 2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals) 2 alphanumeric characters (not relevant for safety)
	uu	(sensor design) option not allowed for aa = CG or C1
	vv	(accessory mounted) NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed) PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption) 2 alphanumeric characters (not relevant for safety)
	yy	(firmware version) 2 alphanumeric characters (not relevant for safety)
	zz	(marking) 2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.	
Electrical Rating	10.5...35Vdc, 4...20mA	
Enclosure Rating	Type 4X/6P, IP66/68	



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Temp. code, ambient (Ta) and process temp. (Tp)	T125°C: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +70^{\circ}\text{C}$	Refer to installation drawing for additional Temp. code (T150°C) and deratings of Ta relative to higher process temperatures ($T_p \leq +150^{\circ}\text{C}$) and device options.
MWP	MWP: up to 40 bar	Single Seal (aa = C1 only)
Installation Drawing	XA01901P (aa = CG) or XA01903P (aa = C1)	

Conditions of Acceptability:

1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. The device shall only be supplied by Class 2 or limited energy source in accordance with CSA/UL 61010-1-12.
3. For Output option bb = BC, the power consumption of the switch channel must be limited to 1W. For supply voltages above 27 VDC, a serial resistor (Rv) must be installed, if no other device (e.g. an external relay or similar) limits the current to 35 mA or less. Refer to installation drawings for minimum resistor values.

Class I, Division 2, Groups A, B, C and D, T6...T1:

Product	Deltabar PMD55B-aabbccdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzz: where,	
	aa (approval)	CD
	bb (output)	AA, BA, BB, BC, DA, FA
	c (display; operation)	A, C, D, E, F, H, N
	d (transmitter housing; mat'l)	B, J, M
	e (electrical conn.)	H
	f (pressure type)	3, 6, 8, 9
	gg (sensor range)	7x, 9Y
	h (calibration; unit)	alphanumeric character (not relevant for safety)
	i (installation)	alphanumeric character (not relevant for safety)
	kkk (process connection)	3 alphanumeric characters (not relevant for safety)
	l (membrane material)	A, B, Y
	m (fill fluid)	alphanumeric character (not relevant for safety)
	n (seal)	alphanumeric character (not relevant for safety)
	+ (additional options: any number of each of the following options may be chosen)	
	oo (ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	pp (calibration cert.)	2 alphanumeric characters (not relevant for safety)



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	qq	(extended nom. pressure)	GK, G9
	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	option not allowed for aa = CD
	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +85^{\circ}\text{C}$		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures ($T_p \leq +100^{\circ}\text{C}$).
MWP and Process Seal	MWP: up to 160 bar		Single Seal
Installation Drawing	XA01894P		

Product	Deltabar PMD75B-aabbccdefghikkklmn + ooppqqrrssttuuvvwxxyyzzaaßγγ: where,		
	aa	(approval)	CD or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N
	e	(electrical conn.)	H
	f	(pressure type)	3, 6, 8, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)



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	i	(installation)	alphanumeric character (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(membrane material)	A, B, C, D, Y
	m	(fill fluid)	alphanumeric character (not relevant for safety)
	n	(seal)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	oo	(operation language)	2 alphanumeric characters (not relevant for safety)
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(application package)	2 alphanumeric characters (not relevant for safety)
	rr	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	ss	(calibration cert.)	2 alphanumeric characters (not relevant for safety)
	tt	(extended nom. pressure)	GK, GM, GQ, G9
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, Cert, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	option not allowed for aa = CD or C1
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq \text{Ta} \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq \text{Ta} \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +85^{\circ}\text{C}$		Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ($\text{Tp} \leq +100^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for vv=JL
MWP and Process Seal	MWP: up to 420 bar		Single Seal
Installation Drawing	XA01897P (aa = CD) or XA01899P (aa = C1)		



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Product	Deltabar PMD78B-aabbccdefghikkkllmmmmnnnopq + rrssttuuvvwxyzzaaββγγδδεε: where,	
	aa	(approval) CD or C1
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J, K, M, N
	e	(electrical conn.) H
	f	(application) B, C, 9
	gg	(sensor range) 7x, 9Y
	h	(calibration; unit) alphanumeric character (not relevant for safety)
	i	(design high pressure side) alphanumeric character (not relevant for safety)
	kkk	(design low pressure side) 3 alphanumeric characters (not relevant for safety)
	ll	(process connection, sealing surface) 2 alphanumeric characters (not relevant for safety)
	mmm	(process connection, HP side) 3 alphanumeric characters (not relevant for safety)
	nnn	(process connection, LP side) 3 alphanumeric characters (not relevant for safety)
	o	(membrane material) alphanumeric character (not relevant for safety)
	p	(fill fluid) alphanumeric character (not relevant for safety)
	q	(seal LP side) alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)
	rr	(operation language display) 2 alphanumeric characters (not relevant for safety)
	ss	(membrane coating) 2 alphanumeric characters (not relevant for safety)
	tt	(application package) 2 alphanumeric characters (not relevant for safety)
	uu	(calibration) 2 alphanumeric characters (not relevant for safety)
	vv	(extended nominal pressure) GK, G9
	ww	(service) 2 alphanumeric characters (not relevant for safety)
	xx	(test, certificate, declaration) JL or other 2 alphanumeric characters (not relevant for safety)
	yy	(additional approval) 2 alphanumeric characters (not relevant for safety)
	zz	(sensor design) option not allowed for aa = CD or C1



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	αα	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ββ	(accessory enclosed)	PA or other 2 alphanumeric characters (not relevant for safety)
	γγ	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	δδ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	εε	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +130^{\circ}\text{C}$		Refer to installation drawings for additional temperature codes (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for xx=JL
MWP and Process Seal	MWP: up to 420 bar		Single Seal
Installation Drawing	XA01897P (aa = CD) or XA01899P (aa = C1)		

Product	Cerabar PMP51B-aabbccdefghiiikllmmno + ppqrrssttuuvvwxxyyzzaa: where,		
	aa	(approval)	CD
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)



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	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	rr	(calibration)	2 alphanumeric characters (not relevant for safety)
	ss	(service)	2 alphanumeric characters (not relevant for safety)
	tt	(test, certificate, declaration)	2 alphanumeric characters (not relevant for safety)
	uu	(additional approval)	2 alphanumeric characters (not relevant for safety)
	vv	(sensor design)	option not allowed for aa = CD
	ww	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	xx	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	yy	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	zz	(firmware version)	2 alphanumeric characters (not relevant for safety)
	αα	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +130^{\circ}\text{C}$		Refer to installation drawings for additional temperature codes (T3... T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 400 bar		Single Seal
Installation Drawing	XA01891P		

Product	Cerabar PMP71B-aabbccdefghiiikllmmno + ppqqrrssttuuvvwwxxyyzzααββγγ: where,		
	aa	(approval)	CD or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N



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	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(operation language display)	2 alphanumeric characters (not relevant for safety)
	qq	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	rr	(application package)	2 alphanumeric characters (not relevant for safety)
	ss	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	tt	(calibration)	2 alphanumeric characters (not relevant for safety)
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, certificate, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approval)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	option not allowed for aa = CD or C1
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		



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Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +130^{\circ}\text{C}$	Refer to installation drawings for additional temperature codes (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * lower ambient reduced to -50°C for vv=JL
MWP and Process Seal	MWP: up to 1050 bar	Single Seal (up to 700 bar)
Installation Drawing	XA01901P (aa = CD) or XA01903P (aa = C1)	

Product	Cerabar PMC51B-aabbcdffgghhiikkkl + mmmnooppqqrrssttuuvvww: where,	
	aa	(approval) CD
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, N
	d	(transmitter housing; mat'l) B, J
	e	(electrical conn.) H
	f	(pressure type) 6, 8, 9
	gg	(sensor range) 3x, 9Y
	h	(calibration; unit) alphanumeric character (not relevant for safety)
	ii	(process connection, sealing surface) 2 alphanumeric characters (not relevant for safety)
	kkk	(process connection) 3 alphanumeric characters (not relevant for safety)
	l	(seal, process connected) D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)
	mm	(reference accuracy) 2 alphanumeric characters (not relevant for safety)
	nn	(calibration) 2 alphanumeric characters (not relevant for safety)
	oo	(service) 2 alphanumeric characters (not relevant for safety)
	pp	(test, Cert, declaration) 2 alphanumeric characters (not relevant for safety)
	qq	(additional approvals) 2 alphanumeric characters (not relevant for safety)
	rr	(sensor design) option not allowed for aa = CD
	ss	(accessory mounted) NA or other 2 alphanumeric characters (not relevant for safety)
	tt	(accessory enclosed) PA, PB or other 2 alphanumeric characters (not relevant for safety)
	uu	(regional device adaption) 2 alphanumeric characters (not relevant for safety)



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	vv	(firmware version)	2 alphanumeric characters (not relevant for safety)
	ww	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +100^{\circ}\text{C}$		Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ($\text{Tp} \leq +125^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar		Single Seal
Installation Drawing	XA01891P		

Product	Cerabar PMC71B-aabbccdefghhiklllm + nnooppqrrssttuuvvwwxxyyzz: where,		
	aa	(approval)	CD or C1
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	alphanumeric character (not relevant for safety)
	hh	(sensor range)	3x, 9Y
	i	(calibration; unit)	alphanumeric character (not relevant for safety)
	kk	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	lll	(process connection)	3 alphanumeric characters (not relevant for safety)
	m	(seal, process connected)	D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)	
	nn	(operation language display)	2 alphanumeric characters (not relevant for safety)
	oo	(application package)	EC or other 2 alphanumeric characters (not relevant for safety)
	pp	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	qq	(calibration)	2 alphanumeric characters (not relevant for safety)



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	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	option not allowed for aa = CD or C1
	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +125^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3) and deratings of Ta relative to higher process temperatures ($T_p \leq +150^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar		Single Seal
Installation Drawing	XA01901P (aa = CD) or XA01903P (aa = C1)		

Conditions of Acceptability:

1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. The device shall only be supplied by Class 2 or limited energy source in accordance with CSA/UL 61010-1-12.
3. For Output option bb = BC, the power consumption of the switch channel must be limited to 1W. For supply voltages above 27 VDC, a serial resistor (Rv) must be installed, if no other device (e.g. an external relay or similar) limits the current to 35 mA or less. Refer to installation drawings for minimum resistor values.



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- CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
- CLASS 2258 83** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations– Certified to U.S. Standards

Class I, Division 1, Groups A,B,C,D ; Class II, Division 1, Groups E,F,G; Class III T6...T3
Ex db ia IIC T6...T3 Gb
Class I, Zone 1 AEx db ia IIC T6...T3 Gb

Product	Cerabar PMC51B-aabbcdffgghiiikkll + mmmnnnooppqqrrssttuuvvww: (Explosion proof transmitter with intrinsically safe sensor) where,		
	aa	(approval)	CD, CF (CF is not applicable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	gg	(sensor range)	3x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	ii	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(seal, process connected)	D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)	
	mm	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	nn	(calibration)	2 alphanumeric characters (not relevant for safety)
	oo	(service)	2 alphanumeric characters (not relevant for safety)
	pp	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	qq	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	rr	(sensor design)	option not allowed
	ss	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)



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	tt	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	uu	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	vv	(firmware version)	2 alphanumeric characters (not relevant for safety)
	ww	(marking)	2 alphanumeric characters (not relevant for safety)
	Notes: - Some option codes may be restricted for certain model types. - Type of protection "db" refers to the protection method for the transmitter housing. Type of protection "ia" refers to the protection method for the sensor module.		
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +100^{\circ}\text{C}$		Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ($T_p \leq +125^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar		Single Seal
Installation Drawing	XA01891P		

Product	Cerabar PMC71B-aabbccdefghhiklllm + nnooppqqrrssttuuvvwxxyyzz: (Explosion proof transmitter with intrinsically safe sensor) where,		
	aa	(approval)	CD, CF or C1 (CF is not applicable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	H
	f	(pressure type)	6, 8, 9
	g	(application)	alphanumeric character (not relevant for safety)
	hh	(sensor range)	3x, 9Y
	i	(calibration; unit)	alphanumeric character (not relevant for safety)



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	kk	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	lll	(process connection)	3 alphanumeric characters (not relevant for safety)
	m	(seal, process connected)	D, G, J, M, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)	
	nn	(operation language display)	2 alphanumeric characters (not relevant for safety)
	oo	(application package)	EC or other 2 alphanumeric characters (not relevant for safety)
	pp	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	qq	(calibration)	2 alphanumeric characters (not relevant for safety)
	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	option not allowed
	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
Notes: - Some option codes may be restricted for certain model types. - Type of protection "db" refers to the protection method for the transmitter housing. Type of protection "ia" refers to the protection method for the sensor module.			
Electrical Rating	10.5...35Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq \text{Ta} \leq +55^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq \text{Tp} \leq +100^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3) and deratings of Ta relative to higher process temperatures ($\text{Tp} \leq +150^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar		Single Seal



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Installation Drawing	XA01901P (aa = CD, CF) or XA01903P (aa = C1)
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Conditions of Acceptability:

1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. The device shall only be supplied by Class 2 or limited energy source in accordance with CSA/UL 61010-1-12.
3. Because of the risk of discharge the non-metallic parts of the equipment and of all non-metallic accessories must be protected from electrostatic charging during installation and operation.
4. For Output option bb = BC, the power consumption of the switch channel must be limited to 1W. For supply voltages above 27 VDC, a serial resistor (Rv) must be installed, if no other device (e.g. an external relay or similar) limits the current to 35 mA or less. Refer to installation drawings for minimum resistor values.
5. The transmitter housing is to be installed as an explosionproof/flameproof device in Class I, Division 1/Zone 1 locations. Device provides an intrinsically safe (IS) to the integral or remote mounted sensor which may be installed in Class I, Division 1 / Zone 0 locations according to the installation requirements of Canadian Electrical Code, Part I (C22.1) and the National Electrical Code (NFPA70)

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations– Certified to U.S. Standards

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III T6...T1

Ex ia IIC T6 Ga

Class I, Zone 0 AEx ia IIC T6...T1 Ga

Product	Deltabar PMD55B-aabbccdefghikkklmn + ooppqqrrssttuuvvwxxyzz: where,	
	aa	(approval) CB, CC (CC not suitable for Class II and III)
	bb	(output) AA, BA, BB, BC, DA, FA
	c	(display; operation) A, C, D, E, F, H, L (only for aa = CC), M, N, O
	d	(transmitter housing; mat'l) B, J, M
	e	(electrical conn.) A, B, C, F, H, M (only for aa = CC), S
	f	(pressure type) 3, 6, 8, 9
	gg	(sensor range) 7x, 9Y
	h	(calibration; unit) alphanumeric character (not relevant for safety)
	i	(installation) alphanumeric character (not relevant for safety)
	kkk	(process connection) 3 alphanumeric characters (not relevant for safety)



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	l	(membrane material)	A, B, Y
	m	(fill fluid)	alphanumeric character (not relevant for safety)
	n	(seal)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	oo	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	pp	(calibration cert.)	2 alphanumeric characters (not relevant for safety)
	qq	(extended nom. pressure)	GK, G9
	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	vv	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +85^{\circ}\text{C}$		Refer to installation drawing for deratings of Ta relative to higher process temperatures ($T_p \leq +100^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 160 bar		Single Seal
Installation Drawing	XA01893P		

Product	Deltabar PMD75B-aabbcd efghikklmn + ooppqqrrssttuuvvwxxyyzzaaββγγ: where,		
	aa	(approval)	CB, CC or C1 (CC not suitable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA



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	c	(display; operation)	for aa = CB: A, C, D, E, F, H
			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(pressure type)	3, 6, 8, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	i	(installation)	alphanumeric character (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(membrane material)	A, B, Y
	m	(fill fluid)	alphanumeric character (not relevant for safety)
	n	(seal)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	oo	(operation language)	2 alphanumeric characters (not relevant for safety)
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(application package)	2 alphanumeric characters (not relevant for safety)
	rr	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	ss	(calibration cert.)	2 alphanumeric characters (not relevant for safety)
	tt	(extended nom. pressure)	GK, GM, GQ, G9
	uu	(service)	2 alphanumeric characters (not relevant for safety)
	vv	(test, Cert, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		



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Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +85^{\circ}\text{C}$	Refer to installation drawings for deratings of Ta relative to higher process temperatures ($T_p \leq +100^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for tt=JL
MWP and Process Seal	MWP: up to 420 bar	Single Seal
Installation Drawing	XA01896P (aa = CB or CC) or XA01899P (aa = C1)	

Product	Deltabar PMD78B-aabbccdefghikkllmmnnnopq + rrssttuuvvwxyzzaaβγγδδεε: where,		
	aa	(approval)	CB, CC or C1 (CC not suitable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	for aa = CB: A, C, D, E, F, H
			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K, M, N
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(application)	B, C, 9
	gg	(sensor range)	7x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)
	i	(design high pressure side)	alphanumeric character (not relevant for safety)
	kkk	(design low pressure side)	3 alphanumeric characters (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection, HP side)	3 alphanumeric characters (not relevant for safety)
	nnn	(process connection, LP side)	3 alphanumeric characters (not relevant for safety)
	o	(membrane material)	alphanumeric character (not relevant for safety)
	p	(fill fluid)	alphanumeric character (not relevant for safety)
	q	(seal LP side)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	



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	rr	(operation language display)	2 alphanumeric characters (not relevant for safety)
	ss	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	tt	(application package)	2 alphanumeric characters (not relevant for safety)
	uu	(calibration)	2 alphanumeric characters (not relevant for safety)
	vv	(extended nominal pressure)	GK, G9
	ww	(service)	2 alphanumeric characters (not relevant for safety)
	xx	(test, certificate, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	yy	(additional approval)	2 alphanumeric characters (not relevant for safety)
	zz	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	αα	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	ββ	(accessory enclosed)	PA or other 2 alphanumeric characters (not relevant for safety)
	γγ	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	δδ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	εε	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +130^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for xx=JL
MWP and Process Seal	MWP: up to 420 bar		Single Seal
Installation Drawing	XA01896P (aa = CB or CC) or XA01899P (aa = C1)		

Product	Cerabar PMP51B-aabbcddefghiikllmmno + ppqrrssttuuvvwwxxyyzzaa: where,		
	aa	(approval)	CB, CC (CC not suitable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	for aa = CB: A, C, D, E, F, H



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			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, M
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	qq	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	rr	(calibration)	2 alphanumeric characters (not relevant for safety)
	ss	(service)	2 alphanumeric characters (not relevant for safety)
	tt	(test, certificate, declaration)	2 alphanumeric characters (not relevant for safety)
	uu	(additional approval)	2 alphanumeric characters (not relevant for safety)
	vv	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	ww	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	xx	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	yy	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	zz	(firmware version)	2 alphanumeric characters (not relevant for safety)
	αα	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient	T6: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +70^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3...T1) and



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(Ta) and process temp. (Tp)	T4: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$	deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 400 bar	Single Seal
Installation Drawing	XA01890P	

Product	Cerabar PMP71B-aabbccdefghiiikllmmno + ppqrrssttuuvvwwxxyyzzaaββγγ: where,		
	aa	(approval)	CB, CC, or C1 (CC not suitable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	for aa = CB: A, C, D, E, F, H
			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(pressure type)	6, 8, 9
	g	(application)	A, B, 9
	h	(diaphragm seal)	A, D, G, M...T, Y
	ii	(sensor range)	3x, 9Y
	k	(calibration; unit)	alphanumeric character (not relevant for safety)
	ll	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)
	n	(membrane material)	alphanumeric character (not relevant for safety)
	o	(fill fluid)	alphanumeric character (not relevant for safety)
	+	(additional options: any number of each of the following options may be chosen)	
	pp	(operation language display)	2 alphanumeric characters (not relevant for safety)
	qq	(membrane coating)	2 alphanumeric characters (not relevant for safety)
	rr	(application package)	2 alphanumeric characters (not relevant for safety)
	ss	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	tt	(calibration)	2 alphanumeric characters (not relevant for safety)
	uu	(service)	2 alphanumeric characters (not relevant for safety)



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	vv	(test, certificate, declaration)	JL or other 2 alphanumeric characters (not relevant for safety)
	ww	(additional approval)	2 alphanumeric characters (not relevant for safety)
	xx	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	yy	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)
	zz	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	αα	(country, regional adaption)	2 alphanumeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)
	γγ	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +70^{\circ}\text{C}$ T4: $-40^{\circ}\text{C}^* \leq T_a \leq +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +80^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3...T1) and deratings of Ta relative to higher process temperatures ($T_p \leq +400^{\circ}\text{C}$) and device options. * ambient reduced to -50°C for vv=JL
MWP and Process Seal	MWP: up to 1050 bar		Single Seal (up to 700 bar)
Installation Drawing	XA01900P (aa = CB or CC) or XA01903P (aa = C1)		

Product	Cerabar PMC51B-aabbcdffgghhiikkll + mmmnooppqrrssttuuvvww: where,		
	aa	(approval)	CB, CC (CC not suitable for Class II and III)
	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	for aa = CB: A, C, D, E, F, H
			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(pressure type)	6, 8, 9
	gg	(sensor range)	3x, 9Y
	h	(calibration; unit)	alphanumeric character (not relevant for safety)



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	ii	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	l	(seal, process connected)	A, B, Y
	+	(additional options: any number of each of the following options may be chosen)	
	mm	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	nn	(calibration)	2 alphanumeric characters (not relevant for safety)
	oo	(service)	2 alphanumeric characters (not relevant for safety)
	pp	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	qq	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	rr	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	ss	(accessory mounted)	2 alphanumeric characters (not relevant for safety)
	tt	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	uu	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	vv	(firmware version)	2 alphanumeric characters (not relevant for safety)
	ww	(marking)	2 alphanumeric characters (not relevant for safety)
Note: Some option codes may be restricted for certain model types.			
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +60^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +100^{\circ}\text{C}$		Refer to installation drawings for deratings of Ta relative to higher process temperatures ($T_p \leq +125^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar		Single Seal
Installation Drawing	XA01890P		

Product	Cerabar PMC71B-aabbccdefghhikkllm + nnooppqrrssttuuvvwxyzz: where,		
	aa	(approval)	CB, CC or C1 (CC not suitable for Class II and III)



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	bb	(output)	AA, BA, BB, BC, DA, FA
	c	(display; operation)	for aa = CB: A, C, D, E, F, H
			for aa = CC: A, C, D, E, F, H, L, M, N, O
			for aa = C1: A, C, D, E, F, H, N
	d	(transmitter housing; mat'l)	B, J, K
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S
	f	(pressure type)	6, 8, 9
	g	(application)	alphanumeric character (not relevant for safety)
	hh	(sensor range)	3x, 9Y
	i	(calibration; unit)	alphanumeric character (not relevant for safety)
	kk	(process connection, sealing surface)	2 alphanumeric characters (not relevant for safety)
	lll	(process connection)	3 alphanumeric characters (not relevant for safety)
	m	(seal, process connected)	D, G, J, M, P, P, R, Y
	+	(additional options: any number of each of the following options may be chosen)	
	nn	(operation language display)	2 alphanumeric characters (not relevant for safety)
	oo	(application package)	EC or other 2 alphanumeric characters (not relevant for safety)
	pp	(reference accuracy)	2 alphanumeric characters (not relevant for safety)
	qq	(calibration)	2 alphanumeric characters (not relevant for safety)
	rr	(service)	2 alphanumeric characters (not relevant for safety)
	ss	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphanumeric characters (not relevant for safety)
	uu	(sensor design)	MA, MB, MC, MD, MH, M9 (only for aa = CC)
	vv	(accessory mounted)	2 alphanumeric characters (not relevant for safety)
	ww	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)
	xx	(regional device adaption)	2 alphanumeric characters (not relevant for safety)
	yy	(firmware version)	2 alphanumeric characters (not relevant for safety)
	zz	(marking)	2 alphanumeric characters (not relevant for safety)
	Note: Some option codes may be restricted for certain model types.		
Electrical Rating	10.5...30Vdc, 4...20mA		
Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient	T6: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +60^{\circ}\text{C}$		Refer to installation drawings for additional temp. code (T3) and deratings



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(Ta) and process temp. (Tp)	T4: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ and $-40^{\circ}\text{C} \leq T_p \leq +100^{\circ}\text{C}$	of Ta relative to higher process temperatures ($T_p \leq +150^{\circ}\text{C}$) and device options.
MWP and Process Seal	MWP: up to 40 bar	Single Seal
Installation Drawing	XA01900P (aa = CB or CC) or XA01903P (aa = C1)	

Conditions of Acceptability:

1. The end user shall ensure appropriate earthing of all metallic accessories upon installation.
2. Because of the risk of discharge the non-metallic parts of the equipment and of all non-metallic accessories must be protected from electrostatic charging during installation and operation.
3. Entity parameters according to installation drawings; XA01890P (PMP51B & PMC51B), XA01893P (PMD55B), XA01896P (PMD75B & PMD78B), XA01899P (PMD75B & PMD78B) XA01900P (PMP71B & PMC71B) or XA01903P (PMP71B & PMC71B)

CLASS 2252 06 - PROCESS CONTROL EQUIPMENT

CLASS 2252 86 - PROCESS CONTROL EQUIPMENT (Certified to U.S. Standards)

Pressure transmitters Cerabar PMP51B, PMC51B, PMP71B and PMC71B;

Differential Pressure transmitters Deltabar PMD55B, PMD75B and PMD78B.

Above transmitters are part of L+P platform products.

Rating: non-Ex: $\leq 35\text{VDC}$, for IS device: $\leq 30\text{VDC}$; 4-20mA

Standard Ambient temperature range: -40°C to $+70^{\circ}\text{C}$

- Lower ambient may be reduced to -50°C (with additional option JL) or -60°C (with additional option JT), only when using metallic enclosure.
- Minimum ambient temperature for models with polymeric enclosure (option d = A) is limited to 0°C .
- For process temperature higher than $+85^{\circ}\text{C}$, the rated ambient is reduced by de-rating; refer to manuals for details.

Conditions of Acceptability:

1. L+P Devices to be supplied by a Class 2 or Limited Energy Source in accordance with CSA 61010-1-12.
2. Rated: Pollution Degree 2, Overvoltage Category II
3. Environmental Conditions: 5000m max



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APPLICABLE REQUIREMENTS

C22.2 No. 25-17	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
C22.2 No. 30-M1986 (r2016)	Explosion-proof enclosures for use in Class I hazardous locations
CSA C22.2 No. 94.2-15	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 61010-1-12, UPD1: 2015, UPD2: 2016, AMD1: 2018	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
CAN/CSA-C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:16	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”
CAN/CSA-C22.2 No. 60079-11:14	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”
CAN/CSA-C22.2 No. 60079-47: 2022	Explosive Atmospheres - Part 47: Equipment Protection by 2-Wire Intrinsically Safe Ethernet Concept (2-WISE)
CSA-C22.2 No. 213:2017 + UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021)	Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations
UL 61010-1, 3rd edition (2012), AMD1: 2018	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
FM3600-2022	Approval Standard for Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
FM3610:2021	Approval Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations
FM3615-2018	Approval Standard for Explosionproof Electrical Equipment General Requirements
FM3616-2022	Approval Standard for Dust-Ignitionproof Electrical Equipment General Requirements
UL 50E-15 <i>Second Edition</i>	Enclosures for Electrical Equipment, Environmental Considerations
UL 60079-0-2019 <i>Seventh Edition</i>	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-1-2015 <i>Seventh Edition</i>	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
UL 60079-11 <i>Sixth Edition (March 28, 2014)</i>	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i”
UL-60079-47: 2022 <i>First Edition</i>	Explosive Atmospheres - Part 47: Equipment Protection by 2-Wire Intrinsically Safe Ethernet Concept (2-WISE)
ANSI/UL 121201-2021, Ninth Edition	Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations
UL122701: 2017 <i>Third Edition</i>	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

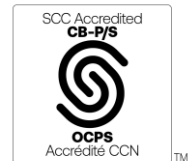


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Notes:

Products certified under Class C225802, C225803, C225804, C225882, C225883, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80203727	2024-07-10	Update cCSAus certification report 80066208 for Evo2 series models to include the following: New approval code "CF" applicable for XP application; addition of CSA certified new electronic modules MA11, MA12, MA13 & MA14 along with VA12 display module and TA10, TA11 terminal modules; addition of CSA certified enclosures HP07 and HS37; update of single seal rating to 700bar for model PMP71B only; Update of FM standards to latest edition and Documentation updates.
80066208	2021-03-25	Original cCSAus certification of intrinsically safe and flameproof Pressure and Differential Pressure transmitters models Cerabar PMC51B, PMP51B, PMC71B, PMP71B and Deltabar PMD55B, PMD75B, PMD78B on L+P platform. Electrical rating input 10.5-35Vdc; 4-20mA output; Type 4X/6P, IP66/68