

# **Certificate of Compliance**

Certificate: 80066208 Master Contract: 151079

**Project:** 80066208 **Date Issued:** 2021-03-25

Issued To: Endress+Hauser SE+Co. KG

Hauptstrasse 1

Maulburg, Baden-Württemberg, 79689

Germany

**Attention: Steve Czaniecki** 

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

	Deltabar PMD55B-aabbcdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzz: where,						
	aa	(approval)	CD				
	bb	(output)	AA, BA				
	c	(display; operation)	A, C, D, E, F, H				
Product	d	(transmitter housing; mat'l)	B, J, K, M				
Product	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)				



	1 1			
	kkk	(process connection)	3 alphan	numeric characters (not relevant for safety)
	1	(membrane material)	A, B, Y	
	m	(fill fluid)	alphanu	meric character (not relevant for safety)
	n	(seal)	alphanu	meric character (not relevant for safety)
	+	+ (additional options: any number of each of the following options may be chosen)		
	00	(ref. accuracy)	2 alphan	numeric characters (not relevant for safety)
	pp	(calibration cert.)	2 alphan	numeric characters (not relevant for safety)
	qq	(extended nom. pressure)	GK, G9	
	rr	(service)	2 alphan	numeric characters (not relevant for safety)
	SS	(test, Cert, declaration)	2 alphan	numeric characters (not relevant for safety)
	tt	(additional approvals)		numeric characters (not relevant for safety)
	uu	(sensor design)		ot allowed for aa = CD
	vv	(accessory mounted)	NA or o	ther 2 alphanumeric characters (not relevant for
			safety)	`
	ww	(accessory enclosed)	PA, PB safety)	or other 2 alphanumeric characters (not relevant for
	XX	(regional device adaption)	2 alphanumeric characters (not relevant for safety)	
	yy	(firmware version)		numeric characters (not relevant for safety)
	ZZ	(marking)		numeric characters (not relevant for safety)
		: Some option codes may be restrict		
Electrical	IVOIC	. Some option codes may be restrict	cu ioi ccii	tani model types.
Rating	10.5	.35Vdc, 420mA		
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$0^{\circ}$ C $\leq$ Ta $\leq$ +60°C and -40°C $\leq$ Tp $\leq$ $0^{\circ}$ C $\leq$ Ta $\leq$ +65°C and -40°C $\leq$ Tp $\leq$		Refer to installation drawing for additional deratings of Ta relative to higher process temperatures (Tp $\leq$ +100°C).
MWP and Process Seal	MWP	: up to 160 bar		Single Seal
Installation Drawing	XA01	XA01894P		

	Deltabar PMD75B-aabbcdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzzααββγγ: where,					
	aa	(approval)	CD or C1			
	bb	(output)	AA, BA			
	c	(display; operation)	A, C, D, E, F, H			
	d	(transmitter housing; mat'l)	B, J, K, M			
	e	(electrical conn.)	H			
Product	f	(pressure type)	3, 6, 8, 9			
Product	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)			
	1	(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	f each of th	ne following options may be chosen)
	00	(operation language)		umeric characters (not relevant for safety)
	pp	(membrane coating)		umeric characters (not relevant for safety)
	qq	(application package)	•	umeric characters (not relevant for safety)
rr		(ref. accuracy)		umeric characters (not relevant for safety)
	SS	(calibration cert.)		umeric characters (not relevant for safety)
	tt	(extended nom. pressure)	•	I, GQ, G9
	uu	(service)		umeric characters (not relevant for safety)
	vv	(test, Cert, declaration)	JL, JT (a	ta = CD only) or other 2 alphanumeric characters vant for safety)
	ww	(additional approvals)		umeric characters (not relevant for safety)
		(sensor design)		ot allowed for aa = CD or C1
	уу	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant safety)	
	ZZ	(accessory enclosed)	PA, PB (safety)	or other 2 alphanumeric characters (not relevant for
	αα	(regional device adaption)	2 alphan	umeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphan	umeric characters (not relevant for safety)
	γγ	(marking)	2 alphan	umeric characters (not relevant for safety)
	Note	: Some option codes may be restrict	ed for cert	ain model types.
Electrical Rating	10.5	.35Vdc, 420mA		
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$0^{\circ}\text{C*} \le \text{Ta} \le +60^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp}$ $0^{\circ}\text{C*} \le \text{Ta} \le +65^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp}$		Refer to installation drawings for additional deratings of Ta relative to higher process temperatures (Tp ≤ +100°C) and device options.  * ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CD only)
MWP and Process Seal	MWP	: up to 420 bar		Single Seal
Installation Drawing	XA01	XA01897P (aa = CD) or XA01899P (aa = C1)		

	Deltabar PMD78B-aabbcdefgghikkkllmmmnnnopq + rrssttuuvvwwxxyyzzααββγγδδεε: where,					
	aa (approval)		CD or C1			
	bb	(output)	AA, BA			
	c	(display; operation)	A, C, D, E, F, H			
	d	(transmitter housing; mat'l)	B, J, K, M			
	e	(electrical conn.)	Н			
Product	f	(application)	B, C, 9			
Floduct	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)			
	11	(process connection, sealing	2 alphanumeric characters (not relevant for safety)			
		surface)				
	mmm	(process connection, HP side)	3 alphanumeric characters (not relevant for safety)			



			1	
	nnn	(process connection, LP side)		umeric characters (not relevant for safety)
	0	(membrane material)	alphanuı	meric character (not relevant for safety)
	p	(fill fluid)	alphanumeric character (not relevant for safety)	
	q	(seal LP side)	alphanuı	meric 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 safe			f the following options may be chosen)
				numeric characters (not relevant for safety)
	SS	(membrane coating)	2 alphan	numeric characters (not relevant for safety)
	tt	(application package)	2 alphan	numeric characters (not relevant for safety)
	uu	(calibration)	2 alphan	numeric characters (not relevant for safety)
	vv	(extended nominal pressure)	GK, G9	
	ww	(service)	2 alphan	numeric characters (not relevant for safety)
	XX	(test, certificate, declaration)		aa = CD only) or other 2 alphanumeric characters vant for safety)
	уу	(additional approval)	2 alphan	numeric characters (not relevant for safety)
	ZZ	(sensor design)	option n	ot allowed for aa = CD or C1
	αα	(accessory mounted)	NA or other 2 alphanumeric characters (not relevan safety)	
	ββ	(accessory enclosed)		ther 2 alphanumeric characters (not relevant for
	γγ	(country, regional adaption)		numeric characters (not relevant for safety)
	δδ	(firmware version)	2 alphanumeric characters (not relevant for safety)	
	33	(marking)	•	numeric characters (not relevant for safety)
	Note:	Some option codes may be restrict		
Electrical Rating	_	5Vdc, 420mA		,
Enclosure Rating	Type 42	X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$\Gamma$ 6: -40°C* ≤ Ta ≤ +60°C and -40°C ≤ Tp ≤ +80° $\Gamma$ 4: -40°C* ≤ Ta ≤ +70°C and -40°C ≤ Tp ≤ +125°C		Refer to installation drawings for additional temperature codes (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * ambient reduced to -50°C for xx=JL and -60°C for xx=JT (aa = CD only)
MWP and Process Seal	MWP:	up to 420 bar		Single Seal
Installation Drawing	XA01897P (aa = CD) or XA01899P (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. 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.



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

	Cerabar l	Cerabar PMP51B-aabbcdefghiikllmmmno + ppqqrrssttuuvvwwxxyyzzaa: where,			
	aa	(approval)	CD		
	bb	(output)	AA, BA	AA, BA	
	c	(display; operation)	A, C, D,	E, F, H	
	d (transmitter housing; mat'l)		B, J, K,	M	
	e (electrical conn.)		Н		
	f (pressure type)		6, 8, 9		
	g	(application)	A, B, 9		
	h	(diaphragm seal)	A, D, G,	MT, Y	
	ii	(sensor range)	3x, 9Y		
	k	(calibration; unit)	alphanuı	meric character (not relevant for safety)	
	11	(process connection, sealing surface)		umeric characters (not relevant for safety)	
	mmm	(process connection)	3 alphan	umeric characters (not relevant for safety)	
	n	(membrane material)		meric character (not relevant for safety)	
D 1	0	(fill fluid)		meric character (not relevant for safety)	
Product	+	(additional options: any numb		of the following options may be chosen)	
	pp	(membrane coating)		umeric characters (not relevant for safety)	
	qq	(reference accuracy)		umeric 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)			
	uu	(additional approval)	2 alphanumeric characters (not relevant for safety)		
	vv	(sensor design)	option not allowed for aa = CD or C1		
	ww	(accessory mounted)	NA or or safety)	ther 2 alphanumeric characters (not relevant for	
	XX	(accessory enclosed)	PA, PB or other 2 alphanumeric characters (not relevant for safety)		
	уу	(country, regional adaption)		umeric characters (not relevant for safety)	
	ZZ	(firmware version)	_	umeric characters (not relevant for safety)	
	αα	(marking)	_	umeric characters (not relevant for safety)	
	Note: So	me option codes may be restricted			
Electrical Rating		Vdc, 420mA		,	
Enclosure Rating	Type 4X/6	6P, IP66/68			
Temp. code,				Refer to installation drawings for additional	
ambient (Ta)	T6: $-40^{\circ}\text{C} \le \text{Ta} \le +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \le \text{Tp} \le +80^{\circ}\text{C}$ temperature codes (T3T1) and deratings of Ta				
and process	T4: -40°C	$\leq$ Ta $\leq$ +70°C and -40°C $\leq$ Tp $\leq$	≤+125°C	relative to higher process temperatures (Tp ≤	
temp. (Tp)	$+400^{\circ}$ C) and device options.				
MWP and					
Process Seal	wiwr. up	, 10 +00 0ai		Single Seal	
Installation	XA018911	P			
Drawing	AA010911	1			



	Cerabar l	PMP71B-aabbcdefghiikllmmm	no + ppq	qrrssttuuvvwwxxyyzzααββγγ: where,
	aa	(approval)	CD or C	
	bb	(output)	AA, BA	
	С	(display; operation)	A, C, D,	
	d	(transmitter housing; mat'l)	B, J, K, 1	
	e	(electrical conn.)	Н	
	f	(pressure type)	6, 8, 9	
	g	(application)	A, B, 9	
	h	(diaphragm seal)		MT, Y
	ii	(sensor range)	3x, 9Y	
	k	(calibration; unit)		meric character (not relevant for safety)
	11	(process connection, sealing surface)	_	umeric characters (not relevant for safety)
	mmm	(process connection)	3 alphan	umeric characters (not relevant for safety)
	n	(membrane material)		neric character (not relevant for safety)
	0	(fill fluid)		meric character (not relevant for safety)
	+			of the following options may be chosen)
Product	pp	(operation language display)		umeric characters (not relevant for safety)
	qq	(membrane coating)		umeric characters (not relevant for safety)
	rr	(application package)		umeric characters (not relevant for safety)
	SS	(reference accuracy)		umeric characters (not relevant for safety)
	tt	(calibration)		umeric characters (not relevant for safety)
	uu	(service)		umeric characters (not relevant for safety)
		(test, certificate, declaration)		a = CD only) or other 2 alphanumeric characters
	VV	(test, certificate, declaration)		vant for safety)
	ww	(additional approval)	`	umeric characters (not relevant for safety)
	XX	(sensor design)	option no	ot allowed for aa = CD or C1
	уу	(accessory mounted)	NA or ot safety)	ther 2 alphanumeric characters (not relevant for
	ZZ	(accessory enclosed)	PA, PB of	or other 2 alphanumeric characters (not relevant
	αα	(country, regional adaption)		umeric characters (not relevant for safety)
	ββ	(firmware version)		umeric characters (not relevant for safety)
	γγ	(marking)		umeric characters (not relevant for safety)
		me option codes may be restricted		
Electrical Rating	•	/dc, 420mA		,
Enclosure Rating	Type 4X/6	5P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	$ \begin{array}{l} T6: -40^{\circ}C^* \leq Ta \leq +60^{\circ}C \text{ and } -40^{\circ}C \leq Tp \leq +80^{\circ}C \\ T4: -40^{\circ}C^* \leq Ta \leq +70^{\circ}C \text{ and } -40^{\circ}C \leq Tp \leq \\ +125^{\circ}C \end{array} \begin{array}{l} \text{temperature codes (T3} \\ \text{relative to higher proces} \\ +400^{\circ}C) \text{ and device opt} \\ * \text{ lower ambient reduced} \end{array} $			Refer to installation drawings for additional temperature codes (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * lower ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CD only)
MWP and Process Seal	MWP: up	to 700 bar		Single Seal (up to 400 bar)



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. 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.

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

	Deltabar PMD55B-aabbcdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzz: where,				
	aa	(approval)	CG		
	bb	(output)	AA, B	A	
	С	(display; operation)	A, C, I	D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K	, M	
	e	(electrical conn.)	Н		
	f	(pressure type)	3, 6, 8,	.9	
	gg	(sensor range)	7x, 9Y		
	h	(calibration; unit)	alphan	umeric character (not relevant for safety)	
	i	(installation)	alphan	umeric character (not relevant for safety)	
	kkk	(process connection)	3 alpha	anumeric characters (not relevant for safety)	
	1	(membrane material)	A, B, Y	Y	
	m	(fill fluid)	alphan	umeric character (not relevant for safety)	
	n	(seal)	alphan	umeric character (not relevant for safety)	
Dun des sé	+	(additional options: any number of e		ne following options may be chosen)	
Product	00	(ref. accuracy)	2 alpha	anumeric characters (not relevant for safety)	
	pp	(calibration cert.)	2 alpha	anumeric characters (not relevant for safety)	
	qq	(extended nom. pressure)	GK, G	9	
	rr	(service)	2 alpha	anumeric characters (not relevant for safety)	
	SS	(test, Cert, declaration)		anumeric characters (not relevant for safety)	
	tt	(additional approvals)	2 alpha	anumeric characters (not relevant for safety)	
	uu	(sensor design)	option not allowed for aa = CG		
	vv	(accessory mounted)	NA or	other 2 alphanumeric characters (not relevant for	
			safety)		
	ww	(accessory enclosed)	PA, PE	3 or other 2 alphanumeric characters (not relevant	
			for safe	ety)	
	XX	(regional device adaption)	2 alpha	anumeric characters (not relevant for safety)	
	уу	(firmware version)	2 alpha	anumeric 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	10.535Vdc, 420mA				
Enclosure Rating	• 1	4X/6P, IP66/68			
Temp. code,		C: $-40^{\circ}$ C $\leq$ Ta $\leq$ $+65^{\circ}$ C and $-40^{\circ}$ C $\leq$ T	Гр≤	Refer to installation drawings for additional	
ambient (Ta)	+100°	С		information.	



and process		
temp. (Tp)		
MWP	MWP: up to 160 bar	
Installation Drawing	XA01894P	

	Deltal	oar PMD75B-aabbcdefgghikkklr	nn + ooppo	qrrssttuuvvwwxxyyzzααββγγ: where,	
	aa	(approval)	CG or		
	bb	(output)	AA, B	A	
	С	(display; operation)	A, C, I	D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K		
	e	(electrical conn.)	Н		
	f	(pressure type)	3, 6, 8,	9	
	gg	(sensor range)	7x, 9Y		
	h	(calibration; unit)	alphan	umeric character (not relevant for safety)	
	i	(installation)		umeric character (not relevant for safety)	
	kkk	(process connection)		anumeric characters (not relevant for safety)	
	1	(membrane material)		C, D, Y	
	m	(fill fluid)		umeric character (not relevant for safety)	
	n	(seal)		umeric character (not relevant for safety)	
	+	` /		ne following options may be chosen)	
	00	(operation language)		anumeric characters (not relevant for safety)	
Product	pp	(membrane coating)		anumeric 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.)		anumeric characters (not relevant for safety)	
	tt	(extended nom. pressure)		M, GQ, G9	
	uu	(service)		anumeric characters (not relevant for safety)	
	VV	(test, Cert, declaration)		anumeric characters (not relevant for safety)	
	ww	(additional approvals)		anumeric characters (not relevant for safety)	
	XX	(sensor design)		not allowed for aa = CG or C1	
	уу	(accessory mounted)		other 2 alphanumeric characters (not relevant for	
	ZZ	(accessory enclosed)		3 or other 2 alphanumeric characters (not relevant	
	αα	(regional device adaption)		anumeric characters (not relevant for safety)	
	ββ	(firmware version)		anumeric characters (not relevant for safety)	
	γγ	(marking)		anumeric characters (not relevant for safety)	
	Note	: Some option codes may be restrict			
Electrical Rating	10.535Vdc, 420mA				
Enclosure Rating	Type 4X/6P, IP66/68				
Temp. code, ambient (Ta) and process temp. (Tp)	$ \begin{array}{c c} T100^{\circ}C: -40^{\circ}C \leq Ta \leq +65^{\circ}C \text{ and } -40^{\circ}C \leq Tp \leq \\ +100^{\circ}C & \text{ Information.} \end{array} $ Refer to insta			Refer to installation drawings for additional information.	



MWP	MWP: up to 420 bar
Installation Drawing	XA01897P (aa = CG) or XA01899P (aa = C1)

	Deltabar	PMD78B-aabbcdefgghikkkllmi	nmnnno	pq + rrssttuuvvwwxxyyzzααββγγδδεε: where,
	aa	(approval)	CG or C	C1
	bb	(output)	AA, BA	1
	С	(display; operation)	A, C, D	, E, F, H
	d	(transmitter housing; mat'l)	B, J, K,	M
	e	(electrical conn.)	Н	
	f	(application)	B, C, 9	
	gg	(sensor range)	7x, 9Y	
	h	(calibration; unit)	alphanu	meric character (not relevant for safety)
	i	(design high pressure side)		meric character (not relevant for safety)
	kkk	(design low pressure side)	3 alphai	numeric characters (not relevant for safety)
	11	(process connection, sealing		numeric characters (not relevant for safety)
		surface)	1	`
	mmm	(process connection, HP side)	3 alphai	numeric characters (not relevant for safety)
	nnn	(process connection, LP side)	3 alphai	numeric characters (not relevant for safety)
	0	(membrane material)	alphanu	meric character (not relevant for safety)
	р	(fill fluid)	alphanu	meric character (not relevant for safety)
Due du et	q	(seal LP side)	alphanu	meric character (not relevant for safety)
Product	+	(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 alphai	numeric characters (not relevant for safety)
	tt	(application package)	2 alphai	numeric characters (not relevant for safety)
	uu	(calibration)	2 alphai	numeric characters (not relevant for safety)
	VV	(extended nominal pressure)	GK, G9	
	ww	(service)	2 alphai	numeric characters (not relevant for safety)
	XX	(test, certificate, declaration)	2 alphanumeric characters (not relevant for safety)	
	уу	(additional approval)	2 alphai	numeric characters (not relevant for safety)
	ZZ	(sensor design)	option r	not allowed for aa = CG or C1
	αα	(accessory mounted)	NA or o	other 2 alphanumeric characters (not relevant for
		-	safety)	-
	ββ	(accessory enclosed)	PA or o	ther 2 alphanumeric characters (not relevant for
			safety)	
	γγ	(country, regional adaption)		numeric characters (not relevant for safety)
	δδ	(firmware version)		numeric characters (not relevant for safety)
	33	(marking)		numeric characters (not relevant for safety)
	Note: So	me option codes may be restricte	d for cert	ain model types.
Electrical Rating	10.535	Vdc, 420mA		
Enclosure Rating	Type 4X/6	6P, IP66/68		
Temp. code, ambient (Ta)	T100°C: - +400°C	$40^{\circ}\text{C} \le \text{Ta} \le +70^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le 7$	Tp≤	Refer to installation drawings for additional information.



and process temp. (Tp)	
MWP	MWP: up to 420 bar
Installation Drawing	XA01897P (aa = CG) or XA01899P (aa = C1)

	Cerabar 1	PMP51B-aabbcdefghiikllmmn	1no + r	ppqqrrssttuuvvwwxxyyzzαα: where,	
	aa	(approval)	CG	••	
	bb	(output)	AA,	BA	
	С	(display; operation)	A, C,	, D, E, F, H	
	d	(transmitter housing; mat'l)		K, M	
	e	(electrical conn.)	Н		
	f	(pressure type)	6, 8,	9	
	g	(application)		A, B, 9	
	h	(diaphragm seal)	A, D	, G, MT, Y	
	ii	(sensor range)	3x, 9	Y	
	k	(calibration; unit)	alpha	numeric character (not relevant for safety)	
	11	(process connection, sealing		hanumeric characters (not relevant for safety)	
		surface)	_	•	
	mmm	(process connection)	3 alp	hanumeric characters (not relevant for safety)	
	n	(membrane material)	alpha	numeric character (not relevant for safety)	
Product	0	(fill fluid)	alpha	numeric character (not relevant for safety)	
+ (additional options: any number of each of the		ach of the following options may be chosen)			
	pp	(membrane coating)	2 alp	hanumeric characters (not relevant for safety)	
	qq	(reference accuracy)	2 alphanumeric characters (not relevant for safety)		
	rr	(calibration)	2 alp	hanumeric characters (not relevant for safety)	
	SS	(service)	2 alp	hanumeric characters (not relevant for safety)	
	tt	(test, certificate, declaration)	2 alp	hanumeric characters (not relevant for safety)	
	uu	(additional approval)	2 alp	hanumeric characters (not relevant for safety)	
	vv	(sensor design)	option not allowed for aa = CG		
	ww	(accessory mounted)	NA or other 2 alphanumeric characters (not relevant for safety)		
	XX	(accessory enclosed)	PA, I safet	PB or other 2 alphanumeric characters (not relevant for y)	
	уу	(country, regional adaption)	2 alp	hanumeric characters (not relevant for safety)	
	ZZ	(firmware version)		hanumeric characters (not relevant for safety)	
	αα	(marking)	2 alp	hanumeric characters (not relevant for safety)	
	Note: So	ome option codes may be restrict	ted for	certain model types.	
Electrical Rating	10.535	Vdc, 420mA			
Enclosure Rating	Type 4X/6P, IP66/68				
Temp. code, ambient (Ta) and process	T125°C: $-40$ °C $\le$ Ta $\le$ +65°C and $-40$ °C $\le$ Tp $\le$ +80°C Refer to installation drawing for additional derating of Ta relative to higher process temperatures (Tp $\le$ +400°C) and device options.				
temp. (Tp)	<u> </u>			+400°C) and device options.	



Installation	VA01801D
Drawing	AA018711

	Cerabar l	PMP71B-aabbcdefghiikllmmm		qrrssttuuvvwwxxyyzzααββγγ: where,
	aa	(approval)	CG or C	1
	bb	(output)	AA, BA	
	С	(display; operation)	A, C, D,	E, F, H
	d	(transmitter housing; mat'l)	B, J, K,	M
	e	(electrical conn.)	Н	
	f	(pressure type)	6, 8, 9	
	g	(application)	A, B, 9	
	h	(diaphragm seal)	A, D, G,	MT, Y
	ii	(sensor range)	3x, 9Y	
	k	(calibration; unit)	alphanui	meric character (not relevant for safety)
	11	(process connection, sealing surface)	2 alphan	umeric characters (not relevant for safety)
	mmm	(process connection)	3 alphan	umeric characters (not relevant for safety)
	n	(membrane material)	alphanuı	meric character (not relevant for safety)
	О	(fill fluid)	alphanuı	meric character (not relevant for safety)
Product	+	(additional options: any numb	er of each	of the following options may be chosen)
Product	pp	(operation language display)	2 alphan	umeric characters (not relevant for safety)
	qq	(membrane coating)	2 alphan	umeric characters (not relevant for safety)
	rr	(application package)	2 alphan	umeric characters (not relevant for safety)
	SS	(reference accuracy)	2 alphan	umeric characters (not relevant for safety)
	tt	(calibration)	2 alphan	umeric characters (not relevant for safety)
	uu	(service)	2 alphanumeric characters (not relevant for safety)	
	vv	(test, certificate, declaration)	2 alphanumeric characters (not relevant for safety)	
	ww	(additional approval)	2 alphanumeric characters (not relevant for safety)	
	XX	(sensor design)	option n	ot allowed for aa = CG or C1
	уу	(accessory mounted)	NA or or safety)	ther 2 alphanumeric characters (not relevant for
	ZZ	(accessory enclosed)	PA, PB (safety)	or other 2 alphanumeric characters (not relevant for
	αα	(country, regional adaption)	2 alphan	umeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphan	umeric characters (not relevant for safety)
	γγ	(marking)	2 alphan	umeric characters (not relevant for safety)
	Note: So	me option codes may be restrict	ed for cert	ain model types.
Electrical Rating	10.535	/dc, 420mA		
Enclosure Rating	Type 4X/6	5P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	$ \begin{array}{ll} T125^{\circ}C: -40^{\circ}C \leq Ta \leq +65^{\circ}C \text{ and } -40^{\circ}C \leq Tp \leq \\ +80^{\circ}C \end{array}  \begin{array}{ll} \text{Refer to installation drawing for additional} \\ \text{deratings of Ta relative to higher process} \\ \text{temperatures } (Tp \leq +400^{\circ}C) \text{ and device options.} \end{array} $			
MWP	MWP: up	to 700 bar		
Installation Drawing		P (aa = CG) or XA01903P (aa =	C1)	



		DMC54D 11 16 191111		
		ar PMC51B-aabbcdefgghiikkkl +		ppqqrrssttuuvvww: where,
	aa	(approval)	CG	
	bb	(output)	AA, BA	
	С	(display; operation)	A, C, D,	
	d	(transmitter housing; mat'l)	B, J, K,	M
	e	(electrical conn.)	Н	
	f	(pressure type)	6, 8, 9	
	gg	(sensor range)	3x, 9Y	
	h	(calibration; unit)		meric character (not relevant for safety)
	ii	(process connection, sealing surface)	2 alphan	numeric characters (not relevant for safety)
	kkk	(process connection)	3 alphan	numeric characters (not relevant for safety)
	1	(seal, process connected)	D, G, J,	M, P, R, Y
Dun dun at	+	(additional options: any number o	f each of th	he following options may be chosen)
Product	mm	(reference accuracy)	2 alphan	numeric characters (not relevant for safety)
	nn	(calibration)	2 alphan	numeric characters (not relevant for safety)
	00	(service)	2 alphan	numeric characters (not relevant for safety)
	pp	(test, Cert, declaration)	2 alphan	numeric characters (not relevant for safety)
	qq	(additional approvals)	2 alphan	numeric characters (not relevant for safety)
	rr	(sensor design)	option n	ot allowed for aa = $CG$
	SS	(accessory mounted)	NA or o	ther 2 alphanumeric characters (not relevant for
		•	safety)	•
	tt	(accessory enclosed)	PA, PB safety)	or other 2 alphanumeric characters (not relevant for
	uu	(regional device adaption)	2 alphan	numeric characters (not relevant for safety)
	vv	(firmware version)	2 alphan	numeric characters (not relevant for safety)
	ww	(marking)	2 alphan	numeric characters (not relevant for safety)
	Note	: Some option codes may be restrict	ed for cert	ain model types.
Electrical Rating	10.5	.35Vdc, 420mA		
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	$ \begin{array}{ll} T125^{\circ}C: -40^{\circ}C \leq Ta \leq +65^{\circ}C \text{ and } -40^{\circ}C \leq Tp \leq \\ +70^{\circ}C \end{array} \end{array} \text{ Refer to installation drawing for additional deratings of Ta relative to higher process temperatures } (Tp \leq +125^{\circ}C). $			deratings of Ta relative to higher process
MWP	MWP:	up to 40 bar		
Installation Drawing	XA01	•		

	Ceral	oar PMC71B-aabbcdefghhikklllm	+ nnooppqqrrssttuuvvwwxxyyzz: where,
	aa	(approval)	CG or C1
Product	bb	(output)	AA, BA
Product	c	(display; operation)	A, C, D, E, F, H
	d	(transmitter housing; mat'l)	B, J, K, M
	e	(electrical conn.)	Н



	f	(pressure type)	6, 8, 9	
	g	(application)		imeric character (not relevant for safety)
	hh	(sensor range)	3x, 9Y	mione character (not relevant for surety)
	i	(calibration; unit)		imeric character (not relevant for safety)
	kk	(process connection, sealing		numeric characters (not relevant for safety)
		surface)	2 dipila	and the same of th
	111	(process connection)	3 alpha	numeric characters (not relevant for safety)
	m	(seal, process connected)		, M, P, R, Y
	+		each of	the following options may be chosen)
	nn	(operation language display)	2 alpha	numeric characters (not relevant for safety)
	00	(application package)	EC or o	other 2 alphanumeric characters (not relevant for
	pp	(reference accuracy)	2 alpha	numeric characters (not relevant for safety)
	qq	(calibration)	2 alpha	numeric characters (not relevant for safety)
	rr	(service)	2 alpha	numeric characters (not relevant for safety)
	SS	(test, Cert, declaration)	2 alpha	numeric characters (not relevant for safety)
	tt	(additional approvals)	2 alpha	numeric characters (not relevant for safety)
	uu	(sensor design)	option 1	not allowed for aa = CG or C1
	VV	(accessory mounted)	NA or o	other 2 alphanumeric characters (not relevant for
	ww	(accessory enclosed)		or other 2 alphanumeric characters (not relevant for
	XX	(regional device adaption)		numeric characters (not relevant for safety)
	уу	(firmware version)		numeric characters (not relevant for safety)
	ZZ	(marking)		numeric characters (not relevant for safety)
	Note	: Some option codes may be restrict	ed for cer	rtain model types.
Electrical Rating	10.5	.35Vdc, 420mA		
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code,				Refer to installation drawing for additional Temp.
ambient (Ta)	T125°	C: $-40^{\circ}$ C $\leq Ta \leq +65^{\circ}$ C and $-40^{\circ}$ C $\leq$	$\leq Tp \leq$	code (T150°C) and deratings of Ta relative to
and process	+70°C			higher process temperatures ( $Tp \le +150$ °C) and
temp. (Tp)				device options.
MWP	MWP	: up to 40 bar		
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.

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

	Deltal	Deltabar PMD55B-aabbcdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzz: where,		
Product	aa	(approval)	CD	
	bb	(output)	AA, BA	



	c	(display; operation)	A, C, D,	E, F, H
	d	(transmitter housing; mat'l)	B, J, K,	M
	e	(electrical conn.)	Н	
	f	(pressure type)	3, 6, 8, 9	)
	gg	(sensor range)	7x, 9Y	
	h	(calibration; unit)	alphanuı	meric character (not relevant for safety)
	i	(installation)	alphanuı	meric character (not relevant for safety)
	kkk	(process connection)	3 alphan	numeric characters (not relevant for safety)
	1	(membrane material)	A, B, Y	
	m	(fill fluid)	alphanuı	meric character (not relevant for safety)
	n	(seal)	alphanuı	meric character (not relevant for safety)
	+	(additional options: any number of	each of the	ne following options may be chosen)
	00	(ref. accuracy)	2 alphan	numeric characters (not relevant for safety)
	pp	(calibration cert.)	2 alphan	numeric characters (not relevant for safety)
	qq	(extended nom. pressure)	GK, G9	
	rr	(service)	2 alphan	numeric characters (not relevant for safety)
	SS	(test, Cert, declaration)	2 alphan	numeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphan	numeric characters (not relevant for safety)
	uu	(sensor design)	option n	ot allowed for aa = CD
	vv	(accessory mounted)	NA or o	ther 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)		numeric characters (not relevant for safety)
	уу	(firmware version)		numeric characters (not relevant for safety)
	ZZ	(marking)		numeric characters (not relevant for safety)
	Note	: Some option codes may be restrict	ed for cert	ain model types.
Electrical Rating	10.5	.35Vdc, 420mA		
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process		$0^{\circ}\text{C} \le \text{Ta} \le +60^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp} \le 0^{\circ}\text{C} \le \text{Ta} \le +65^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp} \le 0^{\circ}\text{C} \le \text{Tp} \le 0^{\circ}\text{C} \le \text{Tp} \le 0^{\circ}\text{C} \le \text{Tp} \le 0^{\circ}\text{C} $		Refer to installation drawing for additional deratings of Ta relative to higher process
temp. (Tp)		r <u>_</u>		temperatures (Tp $\leq$ +100°C).
MWP and Process Seal	MWP	: up to 160 bar		Single Seal
Installation Drawing	XA01	894P		

	Deltabar PMD75B-aabbcdefgghikkklmn + ooppqqrrssttuuvvwwxxyyzzααββγγ: where,		
	aa	(approval)	CD or C1
	bb	(output)	AA, BA
Product	c	(display; operation)	A, C, D, E, F, H
	d	(transmitter housing; mat'l)	B, J, K, M
	e	(electrical conn.)	Н
	f	(pressure type)	3, 6, 8, 9



	1	_		
	gg	(sensor range)	7x, 9Y	
	h	(calibration; unit)	alphanu	meric character (not relevant for safety)
	i	(installation)		meric character (not relevant for safety)
	kkk	(process connection)	3 alphan	numeric characters (not relevant for safety)
	1	(membrane material)	A, B, C,	D, Y
	m	(fill fluid)	alphanu	meric character (not relevant for safety)
	n	(seal)	alphanu	meric character (not relevant for safety)
	+	(additional options: any number of	of each of the	he following options may be chosen)
	00	(operation language)	2 alphan	numeric characters (not relevant for safety)
	pp	(membrane coating)	2 alphan	numeric characters (not relevant for safety)
	qq	(application package)	2 alphan	numeric characters (not relevant for safety)
	rr	(ref. accuracy)	2 alphan	numeric characters (not relevant for safety)
	SS	(calibration cert.)	2 alphan	numeric characters (not relevant for safety)
	tt	(extended nom. pressure)	GK, GM	1, GQ, G9
	uu	(service)	2 alphan	numeric characters (not relevant for safety)
	vv	(test, Cert, declaration)		aa = CD only) or other 2 alphanumeric characters evant for safety)
	ww	(additional approvals)		numeric characters (not relevant for safety)
	XX	(sensor design)		ot allowed for aa = CD or C1
	уу	(accessory mounted)		ther 2 alphanumeric characters (not relevant for
	ZZ	(accessory enclosed)	PA, PB safety)	or other 2 alphanumeric characters (not relevant for
	αα	(regional device adaption)		numeric characters (not relevant for safety)
	ββ	(firmware version)		numeric characters (not relevant for safety)
	γγ	(marking)		numeric characters (not relevant for safety)
		: Some option codes may be restric		
Electrical Rating		.35Vdc, 420mA		,
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$0^{\circ}C^* \le Ta \le +60^{\circ}C$ and $-40^{\circ}C \le T_1$ $0^{\circ}C^* \le Ta \le +65^{\circ}C$ and $-40^{\circ}C \le Tp$		Refer to installation drawings for additional deratings of Ta relative to higher process temperatures (Tp ≤ +100°C) and device options.  * ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CD only)
MWP and Process Seal	MWP	: up to 420 bar		Single Seal
Installation Drawing	XA01	897P (aa = CD) or XA01899P (aa =	= C1)	

	Deltaba	Deltabar PMD78B-aabbcdefgghikkkllmmmnnnopq + rrssttuuvvwwxxyyzzααββγγδδεε: where,				
Product	aa	(approval)	CD or C1			
	bb	(output)	AA, BA			
	c	(display; operation)	A, C, D, E, F, H			
	d	(transmitter housing; mat'l)	B, J, K, M			
	e	(electrical conn.)	Н			



	f	(application)	B, C, 9	
	gg	(sensor range)	7x, 9Y	
	h	(calibration; unit)		meric character (not relevant for safety)
	i	(design high pressure side)	_	meric character (not relevant for safety)
	kkk	(design low pressure side)	_	umeric characters (not relevant for safety)
	11	· · · · · · · · · · · · · · · · · · ·	•	
	11	(process connection, sealing surface)	-	umeric characters (not relevant for safety)
	mmm	(process connection, HP side)	3 alphan	umeric characters (not relevant for safety)
	nnn	(process connection, LP side)	3 alphan	umeric characters (not relevant for safety)
	0	(membrane material)	alphanuı	meric character (not relevant for safety)
	р	(fill fluid)		meric character (not relevant for safety)
	q	(seal LP side)		meric character (not relevant for safety)
	+	· `		of the following options may be chosen)
	rr	(operation language display)		umeric characters (not relevant for safety)
	SS	(membrane coating)		umeric characters (not relevant for safety)
	tt	(application package)		umeric characters (not relevant for safety)
	uu	(calibration)		umeric characters (not relevant for safety)
	VV	(extended nominal pressure)	GK, G9	americ characters (not relevant for safety)
	ww	(service)		umeric characters (not relevant for safety)
	XX	(test, certificate, declaration)		a = CD only) or other 2 alphanumeric characters
	AA	,	(not rele	vant for safety)
	уу	(additional approval)	2 alphan	umeric characters (not relevant for safety)
	ZZ	(sensor design)	option n	ot allowed for aa = CD or C1
	αα	(accessory mounted)	NA or or safety)	ther 2 alphanumeric characters (not relevant for
	ββ	(accessory enclosed)		her 2 alphanumeric characters (not relevant for
	γγ	(country, regional adaption)		umeric characters (not relevant for safety)
	δδ	(firmware version)		umeric characters (not relevant for safety)
	33	(marking)		umeric characters (not relevant for safety)
		me option codes may be restricted		
Electrical Rating		/dc, 420mA	_ = === ====	
Enclosure Rating	Type 4X/6	5P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C*} \le \text{Ta} \le +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \le \text{Tp} \le -40^{\circ}\text{C*} \le \text{Ta} \le +70^{\circ}\text{C}$ and $-40^{\circ}\text{C} \le \text{Tp} \le -40^{\circ}\text{C}$			Refer to installation drawings for additional temperature codes (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * ambient reduced to -50°C for xx=JL and -60°C for xx=JT (aa = CD only)
MWP and Process Seal	MWP: up	to 420 bar		Single Seal
Installation Drawing	XA01897I	P (aa = CD) or XA01899P (aa =	C1)	



	Caraban	DMD51D a akk ada£ak#kll		
		(approval)	no + ppq CD	qrrssttuuvvwwxxyyzzαα: where,
	bb			
		(output)	AA, BA	ЕЕП
	C	(display; operation)	A, C, D,	
	d	(transmitter housing; mat'l)	B, J, K,	VI
	e	(electrical conn.)	Н	
	f	(pressure type)	6, 8, 9	
	g	(application)	A, B, 9	
	h	(diaphragm seal)		MT, Y
	ii	(sensor range)	3x, 9Y	
	k	(calibration; unit)		meric character (not relevant for safety)
	11	(process connection, sealing surface)	2 alphan	umeric characters (not relevant for safety)
	mmm	(process connection)	3 alphan	umeric characters (not relevant for safety)
	n	(membrane material)	alphanui	neric character (not relevant for safety)
D. 1	О	(fill fluid)	alphanuı	neric character (not relevant for safety)
Product	+ (additional options: any number of each of the following options may be chosen		of the following options may be chosen)	
	pp	(membrane coating)	2 alphan	umeric characters (not relevant for safety)
	qq	(reference accuracy)		umeric 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)		umeric characters (not relevant for safety)
	uu	(additional approval)		umeric characters (not relevant for safety)
	vv	(sensor design)		ot allowed for aa = CD or C1
	ww	(accessory mounted)		ther 2 alphanumeric characters (not relevant for
	XX	(accessory enclosed)		or other 2 alphanumeric characters (not relevant for
	уу	(country, regional adaption)	2 alphan	umeric characters (not relevant for safety)
	ZZ	(firmware version)		umeric characters (not relevant for safety)
	αα	(marking)		umeric characters (not relevant for safety)
	Note: So	ome option codes may be restrict		
Electrical Rating		Vdc, 420mA		
Enclosure Rating	Type 4X/	6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	$ \begin{array}{ll} T6: -40 ^{\circ} C \leq Ta \leq +60 ^{\circ} C \text{ and } -40 ^{\circ} C \leq Tp \leq +80 ^{\circ} C \\ T4: -40 ^{\circ} C \leq Ta \leq +70 ^{\circ} C \text{ and } -40 ^{\circ} C \leq Tp \leq +130 ^{\circ} C \end{array}  \begin{array}{ll} \text{temperature} \\ \text{relative to} \end{array} $			Refer to installation drawings for additional temperature codes (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.
MWP and Process Seal	MWP: uj	o to 400 bar		Single Seal
Installation Drawing	XA01891	P		

Product	Cerabar P	PMP71B-aabbcdefghiikllmmm	nno + ppqqrrssttuuvvwwxxyyzzααββγγ: where,
Product	aa	(approval)	CD or C1



			1 4 B 4	1
	bb	(output)	AA, BA	
	С	(display; operation)	A, C, D,	
	d	(transmitter housing; mat'l)	B, J, K,	M
	e	(electrical conn.)	Н	
	f	(pressure type)	6, 8, 9	
	g	(application)	A, B, 9	
	h	(diaphragm seal)	A, D, G,	MT, Y
	ii	(sensor range)	3x, 9Y	
	k	(calibration; unit)	alphanur	meric character (not relevant for safety)
	11	(process connection, sealing surface)	2 alphan	umeric characters (not relevant for safety)
	mmm	(process connection)	3 alphan	umeric characters (not relevant for safety)
	n	(membrane material)	alphanur	meric character (not relevant for safety)
	0	(fill fluid)		meric character (not relevant for safety)
	+			of the following options may be chosen)
	pp	(operation language display)		umeric characters (not relevant for safety)
	qq	(membrane coating)		umeric characters (not relevant for safety)
	rr	(application package)		umeric characters (not relevant for safety)
	SS	(reference accuracy)		umeric characters (not relevant for safety)
	tt	(calibration)		umeric characters (not relevant for safety)
	uu	(service)	_	umeric characters (not relevant for safety)
	VV	(test, certificate, declaration)	_	a = CD only) or other 2 alphanumeric characters
	VV		(not rele	vant for safety)
	ww	(additional approval)	2 alphan	umeric characters (not relevant for safety)
	XX	(sensor design)	option no	ot allowed for aa = CD or C1
	уу	(accessory mounted)	NA or of safety)	ther 2 alphanumeric characters (not relevant for
	ZZ	(accessory enclosed)	PA, PB of safety)	or other 2 alphanumeric characters (not relevant for
	αα	(country, regional adaption)		umeric characters (not relevant for safety)
	ββ	(firmware version)		umeric characters (not relevant for safety)
	γγ	(marking)		umeric characters (not relevant for safety)
		me option codes may be restricted		
Electrical Rating		Vdc, 420mA	<u>ca 101 cert</u>	am model types.
Enclosure Rating	Type 4X/6	6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		* $\leq$ Ta $\leq$ +60°C and -40°C $\leq$ Tp * $\leq$ Ta $\leq$ +70°C and -40°C $\leq$ Tp		Refer to installation drawings for additional temperature codes (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * lower ambient reduced to -50°C for vv=JL and -60°C for vv=JT (aa = CD only)
MWP and Process Seal	MWP: up	o to 700 bar		Single Seal (up to 400 bar)
Installation Drawing	XA01901	P (aa = CD) or XA01903P (aa =	C1)	



	Canal	or DMC51D askbadafask#lalala		
	aa	ar PMC51B-aabbcdefgghiikkkl + (approval)	CD	oppqqrrssttuuvvww: wnere,
	bb	(output)	AA, BA	1
	c	(display; operation)		, E, F, H
	d	(transmitter housing; mat'l)	B, J, K,	
	e			1V1
	f	(pressure type)	H 6, 8, 9	
	gg	(sensor range)	3x, 9Y	
	h gg	(calibration; unit)		Imeric character (not relevant for safety)
	ii	(process connection, sealing		numeric characters (not relevant for safety)
		surface)	-	
	kkk	(process connection)		numeric characters (not relevant for safety)
	1	(seal, process connected)	, , ,	, M, P, R, Y
Product	+	(additional options: any number of	f each of	the following options may be chosen)
rioduct	mm	(reference accuracy)	2 alpha	numeric characters (not relevant for safety)
	nn	(calibration)	2 alpha	numeric characters (not relevant for safety)
	00	(service)	2 alpha	numeric characters (not relevant for safety)
	pp	(test, Cert, declaration)	2 alpha	numeric characters (not relevant for safety)
	qq	(additional approvals)	2 alpha	numeric characters (not relevant for safety)
	rr	(sensor design)		not allowed for aa = CD or C1
	ss	(accessory mounted)	NA or o	other 2 alphanumeric characters (not relevant for
	tt	(accessory enclosed)	PA, PB safety)	or other 2 alphanumeric characters (not relevant for
	uu	(regional device adaption)		numeric characters (not relevant for safety)
	vv	(firmware version)		numeric characters (not relevant for safety)
	ww	(marking)		numeric characters (not relevant for safety)
		: Some option codes may be restrict		
Electrical Rating		.35Vdc, 420mA		,
Enclosure Rating	Type 4X/6P, IP66/68			
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}C \le Ta \le +60^{\circ}C$ and $-40^{\circ}C \le Tp \le T4$ : $-40^{\circ}C \le Ta \le +60^{\circ}C$ and $-40^{\circ}C \le Tp \le +100^{\circ}C$			Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ( $Tp \le +125^{\circ}C$ ) and device options.
MWP and Process Seal	MWP:	up to 40 bar		Single Seal
Installation Drawing	XA01	891P		

	Cerabar PMC71B-aabbcdefghhikklllm + nnooppqqrrssttuuvvwwxxyyzz: where,			
	aa	(approval)	CD or C1	
Decduct	bb	(output)	AA, BA	
Product	c	(display; operation)	A, C, D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K, M	
	e	(electrical conn.)	H	



			1	
	f	(pressure type)	6, 8, 9	
	g	(application)	alphanu	meric character (not relevant for safety)
	hh	(sensor range)	3x, 9Y	
	i	(calibration; unit)	alphanu	meric character (not relevant for safety)
	kk	(process connection, sealing surface)	2 alphan	numeric characters (not relevant for safety)
	111	(process connection)	3 alphan	numeric characters (not relevant for safety)
	m	(seal, process connected)	D, G, J,	M, P, R, Y
	+	(additional options: any number of	each of the	e following options may be chosen)
	nn	(operation language display)	2 alphan	numeric characters (not relevant for safety)
	00	(application package)	EC or of safety)	ther 2 alphanumeric characters (not relevant for
	pp	(reference accuracy)	2 alphan	numeric characters (not relevant for safety)
	qq	(calibration)		numeric characters (not relevant for safety)
	rr	(service)		numeric characters (not relevant for safety)
	SS	(test, Cert, declaration)	2 alphan	numeric characters (not relevant for safety)
	tt	(additional approvals)	2 alphan	numeric characters (not relevant for safety)
	uu	(sensor design)	option n	ot allowed for aa = CD or C1
	vv	(accessory mounted)	NA or o	ther 2 alphanumeric characters (not relevant for
	ww	(accessory enclosed)		or other 2 alphanumeric characters (not relevant
	XX	(regional device adaption)	_	numeric characters (not relevant for safety)
	уу	(firmware version)		numeric characters (not relevant for safety)
	ZZ	(marking)		numeric characters (not relevant for safety)
	Note	: Some option codes may be restricted		
Electrical Rating		.35Vdc, 420mA		<b>4</b>
Enclosure Rating	Type 4X/6P, IP66/68			
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C} \le \text{Ta} \le +65^{\circ}\text{C}$ and $-40^{\circ}\text{C} \le \text{Tp} \le +80^{\circ}\text{C}$ T4: $-40^{\circ}\text{C} \le \text{Ta} \le +60^{\circ}\text{C}$ and $-40^{\circ}\text{C} \le \text{Tp} \le +125^{\circ}\text{C}$			Refer to installation drawings for additional temp. code (T3) and deratings of Ta relative to higher process temperatures (Tp $\leq$ +150°C) and device options.
MWP and Process Seal	MWP: up to 40 bar Single Seal			
Installation Drawing	XA01	901P (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.



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

	Cerabar	PMC51B-aabbcdefgghiikkkl + m	mnnooppaarrssttuuvvww:			
		n proof transmitter with intrinsical				
	where,	proor <del>cran</del> ginavor with internoroun	y sure sensor)			
	aa	(approval)	CD			
	bb	(output)	AA, BA			
	c	(display; operation)	A, C, D, E, F, H			
	d	(transmitter housing; mat'l)	B, J, K, M			
	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)			
	1	(seal, process connected)	D, G, J, M, P, R, Y			
	+		er of each of the following options may be chosen)			
Product	mm	(reference accuracy)	2 alphanumeric characters (not relevant for safety)			
	nn	(calibration)	2 alphanumeric characters (not relevant for safety)			
	00	(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)			
	vv	(firmware version)	2 alphanumeric characters (not relevant for safety)			
	ww	(marking)	2 alphanumeric characters (not relevant for safety)			
	Notes:	(marking)	2 diphaliamente enaracters (not relevant for surety)			
		Some option codes may be restricted for certain model types.				
			otection method for the transmitter housing. Type of			
		ection "ia" refers to the protection r				
Electrical Rating	10.535	Vdc, 420mA				



Enclosure Rating	Type 4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}C \le Ta \le +55^{\circ}C$ and $-40^{\circ}C \le Tp \le +80^{\circ}C$ T4: $-40^{\circ}C \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp \le +100^{\circ}C$	Refer to installation drawings for additional deratings of Ta relative to higher process temperatures ( $Tp \le +125^{\circ}C$ ) and device options.	
MWP and Process Seal	MWP: up to 40 bar	Single Seal	
Installation Drawing	XA01891P		

	Cerel	har PMC71R-aahhedefghhikklll	m + nnooppggrrssttuuvvwwxxyyzz:		
		osion proof transmitter with intrins			
	where	*	seary sure sensory		
	aa	(approval)	CD or C1		
	bb	(output)	AA, BA		
	c	(display; operation)	A, C, D, E, F, H		
	d	(transmitter housing; mat'l)	B, J, K, M		
	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)		
	111	(process connection)	3 alphanumeric characters (not relevant for safety)		
	m	(seal, process connected)	D, G, J, M, P, R, Y		
	+		of each of the following options may be chosen)		
	nn	(operation language display)	2 alphanumeric characters (not relevant for safety)		
Product	00	(application package)	EC or other 2 alphanumeric characters (not relevant for		
Troduct		(upplication package)	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 = 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)		
	уу	(firmware version)	2 alphanumeric characters (not relevant for safety)		
	ZZ	(marking)	2 alphanumeric characters (not relevant for safety)		
	Note	<u>es</u> :			
	• ;	Some option codes may be restrict	ed for certain model types.		
			ne protection method for the transmitter housing. Type of		
	1	protection "ia" refers to the protection method for the sensor module.			



Electrical Rating	10.535Vdc, 420mA			
Enclosure Rating	Type 4X/6P, IP66/68			
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}C \le Ta \le +55^{\circ}C$ and $-40^{\circ}C \le Tp \le +80^{\circ}C$ T4: $-40^{\circ}C \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp \le +100^{\circ}C$	Refer to installation drawings for additional temp. code (T3) and deratings of Ta relative to higher process temperatures (Tp $\leq$ +150°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. 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.

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

	Deltal	oar PMD55B-aabbcdefgghikkklm	n + ooppqqrrssttuuvvwwxxyyzz: where,
	aa	(approval)	CB, CC (CC not suitable for Class II and III)
	bb	(output)	AA, BA
	С	(display; operation)	A, C, D, E, F, H
	d	(transmitter housing; mat'l)	B, J, K, 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
Product	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)
	1	(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	Feach of the following options may be chosen)
	00	(ref. accuracy)	2 alphanumeric characters (not relevant for safety)
	pp	(calibration cert.)	2 alphanumeric characters (not relevant for safety)



		()	CV C	
	qq	(extended nom. pressure)	GK, G	
	rr	(service)		numeric characters (not relevant for safety)
	SS	(test, Cert, declaration)	2 alphanumeric characters (not relevant for safety)	
	tt	(additional approvals)	2 alpha	numeric characters (not relevant for safety)
	uu	(sensor design)	MA, M	B, MC, MD, MH, M9
	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)	-	numeric characters (not relevant for safety)
			numeric characters (not relevant for safety)	
	ZZ	(marking)	2 alpha	numeric characters (not relevant for safety)
	Note	: Some option codes may be restrict		
Electrical Rating	10.530Vdc, 420mA			
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$0^{\circ}\text{C} \le \text{Ta} \le +50^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp}$ $0^{\circ}\text{C} \le \text{Ta} \le +60^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp}$		Refer to installation drawing for deratings of Ta relative to higher process temperatures (Tp ≤ +100°C) and device options.
MWP and Process Seal	MWP	: up to 160 bar		Single Seal
Installation Drawing	XA01893P			

	Deltal	bar PMD75B-aabbcdefgghikkklm	n + ooppqqrrssttuuvvwwxxyyzzααββγγ: where,
	aa	(approval)	CB, CC or C1 (CC not suitable for Class II and III)
	bb	(output)	AA, BA
	c	(display; operation)	A, C, D, E, F, H
	d	(transmitter housing; mat'l)	B, J, K, 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)
Product	kkk	(process connection)	3 alphanumeric characters (not relevant for safety)
	1	(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	f each of the following options may be chosen)
	00	(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



1				
	uu	(service)	2 alphan	umeric characters (not relevant for safety)
	vv	(test, Cert, declaration)	JL, JN (a	aa = CB and CC only) or other 2 alphanumeric
			characte	rs (not relevant for safety)
	ww	(additional approvals)	2 alphan	umeric characters (not relevant for safety)
	XX	(sensor design)	MA, ME	B, MC, MD, MH, M9
	уу	(accessory mounted)	NA or of	ther 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 alphan	umeric characters (not relevant for safety)
	ββ	(firmware version)	2 alphanumeric characters (not relevant for safety)	
	γγ	(marking)	2 alphan	umeric characters (not relevant for safety)
	Note	: Some option codes may be restrict	ed for cert	ain model types.
Electrical Rating	10.530Vdc, 420mA			
Enclosure Rating	Type 4	4X/6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)	T6: $-40^{\circ}\text{C}^* \le \text{Ta} \le +50^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp} \le \text{T4: } -40^{\circ}\text{C}^* \le \text{Ta} \le +60^{\circ}\text{C} \text{ and } -40^{\circ}\text{C} \le \text{Tp} \le \text{Ta} \le +60^{\circ}\text{C} = \text{Ta} = +60^{\circ}\text{C} = \text{Ta} = +60^{\circ}\text{C} = +60^{\circ}\text{C} = +60^{\circ}\text{C} = +60^{\circ}\text{C} = +60^{\circ}\text{C} = +60^{\circ}\text{C} = +6$			Refer to installation drawings for deratings of Ta relative to higher process temperatures (Tp ≤ +100°C) and device options.  * ambient reduced to -50°C for tt=JL and -52°C for tt=JN (aa = CB and CC only)
MWP and Process Seal	MWP: up to 420 bar			Single Seal
Installation Drawing	XA01	896P (aa = CB or CC) or XA01899I	P (aa = C1)	)

	Deltabar PMD78B-aabbcdefgghikkkllmmmnnnopq + rrssttuuvvwwxxyyzzααββγγδδεε: where,			
	aa	(approval)	CB, CC* or C1	
			* CC not suitable for Class II and III	
	bb	(output)	AA, BA	
	c	(display; operation)	A, C, D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K, M	
	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)	
Product	i	(design high pressure side)	alphanumeric character (not relevant for safety)	
	kkk	(design low pressure side)	3 alphanumeric characters (not relevant for safety)	
	11	(process connection, sealing	2 alphanumeric characters (not relevant for safety)	
		surface)		
	mmm	(process connection, HP side)	3 alphanumeric characters (not relevant for safety)	
	nnn	(process connection, LP side)	3 alphanumeric characters (not relevant for safety)	
	0	(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 numbe	r of each of the following options may be chosen)	
	rr	(operation language display)	2 alphanumeric characters (not relevant for safety)	



		1		
	SS	(membrane coating)	2 alpha	numeric characters (not relevant for safety)
	tt	(application package)	2 alpha	numeric characters (not relevant for safety)
	uu	(calibration)	2 alpha	numeric characters (not relevant for safety)
	VV	(extended nominal pressure)	GK, G9	
	ww	(service)	2 alpha	numeric characters (not relevant for safety)
	XX	(test, certificate, declaration)	JL, JN	(aa = CB and CC only) or other 2 alphanumeric
				ers (not relevant for safety)
	уу	(additional approval)	2 alpha	numeric characters (not relevant for safety)
	ZZ	(sensor design)	MA, M	B, MC, MD, MH, M9
	αα	(accessory mounted)	NA or o	other 2 alphanumeric characters (not relevant for
			safety)	
	ββ	(accessory enclosed)	PA or o	other 2 alphanumeric characters (not relevant for
			safety)	
	γγ	(country, regional adaption)	2 alpha	numeric characters (not relevant for safety)
	δδ	(firmware version)	2 alpha	numeric characters (not relevant for safety)
	33	(marking)		numeric characters (not relevant for safety)
	Note: So	me option codes may be restricte	d for cert	ain model types.
Electrical Rating	10.530	Vdc, 420mA		
Enclosure Rating	Type 4X/6	6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		* $\leq$ Ta $\leq$ +60°C and -40°C $\leq$ Tp $\leq$ * $\leq$ Ta $\leq$ +70°C and -40°C $\leq$ Tp $\leq$		Refer to installation drawings for additional temp. code (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * ambient reduced to -50°C for xx=JL and -52°C for xx=JN (aa = CB and CC only)
MWP and Process Seal	MWP: up	o to 420 bar		Single Seal
Installation Drawing	XA01896P (aa = CB or CC) or XA01899P (aa = C1)			

	Cerabar l	Cerabar PMP51B-aabbcdefghiikllmmmno + ppqqrrssttuuvvwwxxyyzzαα: where,				
	aa	(approval)	CB, CC*			
			* CC not suitable for Class II and III			
	bb	(output)	AA, BA			
	С	(display; operation)	A, C, D, E, F, H			
	d	(transmitter housing; mat'l)	B, J, K, M			
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S			
Product	f	(pressure type)	6, 8, 9			
Floduct	g	(application)	A, B, 9			
	h	(diaphragm seal)	A, D, G, MT, Y			
	ii	(sensor range)	3x, 9Y			
	k	(calibration; unit)	alphanumeric character (not relevant for safety)			
	11	(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)			



	0	(fill fluid)	alphan	umeric character (not relevant for safety)
	+	(additional options: any numbe	r of each	of the following options may be chosen)
	pp	(membrane coating)	2 alpha	numeric characters (not relevant for safety)
	qq	(reference accuracy)	2 alpha	numeric characters (not relevant for safety)
	rr	(calibration)	2 alpha	numeric characters (not relevant for safety)
	SS	(service)	2 alpha	numeric characters (not relevant for safety)
	tt	(test, certificate, declaration)	2 alpha	numeric characters (not relevant for safety)
	uu	(additional approval)	2 alpha	numeric characters (not relevant for safety)
	vv	(sensor design)	MA, M	IB, MC, MD, MH, M9
	ww	(accessory mounted)	NA or	other 2 alphanumeric characters (not relevant for
			safety)	-
	XX	(accessory enclosed)	PA, PE	B or other 2 alphanumeric characters (not relevant
			for safe	ety)
	уу	(country, regional adaption)	2 alpha	numeric characters (not relevant for safety)
	ZZ	(firmware version)	2 alpha	numeric characters (not relevant for safety)
	αα	(marking)	2 alpha	numeric characters (not relevant for safety)
	Note: So	me option codes may be restricte	d for cert	tain model types.
Electrical Rating	10.530	0.530Vdc, 420mA		
Enclosure Rating	Type 4X/6	6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$0 \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp \le 10^{\circ}C$ $0 \le Ta \le +60^{\circ}C$ and $0 \le Tp \le 10^{\circ}C$		Refer to installation drawings for additional temp. code (T3T1) and deratings of Ta relative to higher process temperatures (Tp $\leq$ +400°C) and device options.
MWP and Process Seal	MWP: up	o to 400 bar		Single Seal
Installation Drawing	XA01890P			

	Cerabar PMP71B-aabbcdefghiikllmmmno + ppqqrrssttuuvvwwxxyyzzααββγγ: where,				
	aa	(approval)	CB, CC*, or C1		
			* CC not suitable for Class II and III		
	bb	(output)	AA, BA		
	c	(display; operation)	A, C, D, E, F, H		
	d	(transmitter housing; mat'l)	B, J, K, M		
	e	(electrical conn.)	A, B, C, F, H, M (only for aa=CC), S		
	f	(pressure type)	6, 8, 9		
Product	g	(application)	A, B, 9		
	h	(diaphragm seal)	A, D, G, MT, Y		
	ii	(sensor range)	3x, 9Y		
	k	(calibration; unit)	alphanumeric character (not relevant for safety)		
	11	(process connection, sealing	2 alphanumeric characters (not relevant for safety)		
		surface)			
	mmm	(process connection)	3 alphanumeric characters (not relevant for safety)		
	n	(membrane material)	alphanumeric character (not relevant for safety)		
	0	(fill fluid)	alphanumeric character (not relevant for safety)		



	+	(additional options: any number	er of each	of the following options may be chosen)
	pp	(operation language display)	2 alpha	numeric characters (not relevant for safety)
	qq	(membrane coating)	2 alpha	numeric characters (not relevant for safety)
	rr	(application package)	2 alpha	numeric characters (not relevant for safety)
	SS	(reference accuracy)	2 alpha	numeric characters (not relevant for safety)
	tt	(calibration)	2 alpha	numeric characters (not relevant for safety)
	uu	(service)	2 alpha	numeric characters (not relevant for safety)
	vv	(test, certificate, declaration)	JL, JN	(aa = CB and CC only) or other 2 alphanumeric
			charact	ters (not relevant for safety)
	ww	(additional approval)	2 alpha	numeric characters (not relevant for safety)
	XX	(sensor design)	MA, M	IB, MC, MD, MH, M9
	уу	(accessory mounted)	NA or	other 2 alphanumeric characters (not relevant for
			safety)	
	ZZ	(accessory enclosed)	PA, PE	B or other 2 alphanumeric characters (not relevant
			for safe	ety)
	αα	(country, regional adaption)	2 alpha	numeric characters (not relevant for safety)
	ββ	(firmware version)	2 alpha	numeric characters (not relevant for safety)
	γγ	(marking)		numeric characters (not relevant for safety)
	Note: So	ome option codes may be restricte	d for cert	ain model types.
Electrical Rating	10.530	Vdc, 420mA		
Enclosure Rating	Type 4X/	6P, IP66/68		
Temp. code, ambient (Ta) and process temp. (Tp)		$C^* \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp$ : $C^* \le Ta \le +60^{\circ}C$ and $-40^{\circ}C \le Tp$ :		Refer to installation drawings for additional temp. code (T3T1) and deratings of Ta relative to higher process temperatures (Tp ≤ +400°C) and device options.  * ambient reduced to -50°C for vv=JL and -52°C for vv=JN (aa = CB and CC only)
MWP and Process Seal	MWP: up to 700 bar			Single Seal (up to 400 bar)
Installation Drawing	XA01900P (aa = CB or CC) or XA01903P (aa = C1)			

	Cerabar PMC51B-aabbcdefgghiikkkl + mmnnooppqqrrssttuuvvww: where,			
	aa	(approval)	CB, CC*	
			* CC not suitable for Class II and III	
	bb	(output)	AA, BA	
	c	(display; operation)	A, C, D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K, M	
Product	e	(electrical conn.)	A, B, C, F, H, M, S	
Floduct	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)	
	1	(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 pp		(service)	2 alphanumeric characters (not relevant for safety)		
		(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		
	SS	(accessory mounted)	2 alphanumeric characters (not relevant for safety)		
	tt	(accessory enclosed)	A, PB or oth	er 2 alphanumeric characters (not	
		-	elevant for sa	fety)	
	uu	(regional device adaption)	alphanumeri	c characters (not relevant for safety)	
	VV	(firmware version)	alphanumeri	c characters (not relevant for safety)	
	ww	(marking)	alphanumeri	c characters (not relevant for safety)	
	Note: Som	e option codes may be restricted for			
Electrical Rating	10.530Vdc, 420mA				
Enclosure Rating	Type 4X/6P, IP66/68				
Temp. code, ambient (Ta) and process temp. (Tp)		Ta $\leq$ +50°C and -40°C $\leq$ Tp $\leq$ +6 Ta $\leq$ +50°C and -40°C $\leq$ Tp $\leq$ +1	relative	installation drawings for deratings of Ta to higher process temperatures (Tp $\leq$ ) and device options.	
MWP and Process Seal	MWP: up t	o 40 bar	Single S	eal	
Installation Drawing	XA01890P				

	Ceral	Cerabar PMC71B-aabbcdefghhikklllm + nnooppqqrrssttuuvvwwxxyyzz: where,		
	aa	(approval)	CB, CC* or C1	
Product			* CC not suitable for Class II and III	
	bb	(output)	AA, BA	
	c	(display; operation)	A, C, D, E, F, H	
	d	(transmitter housing; mat'l)	B, J, K, M	
	e	(electrical conn.)	A, B, C, F, H, M, 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)	
	111	(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)	
	00	(application package)	EC or other 2 alphanumeric characters (not relevant for	
		(mafaman aa aaaumaari)	safety)	
	pp	(reference accuracy)	2 alphanumeric characters (not relevant for safety)	



	qq	(calibration)	2 alphan	umeric 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)	•	umeric characters (not relevant for safety)	
	uu	(sensor design)		8, MC, MD, MH, M9	
	VV	(accessory mounted)	2 alphan	umeric characters (not relevant for safety)	
	ww	(accessory enclosed)	PA, PB	or other 2 alphanumeric characters (not relevant for	
			safety)		
	XX	(regional device adaption)	2 alphan	umeric characters (not relevant for safety)	
	уу	(firmware version)	_ •	umeric characters (not relevant for safety)	
	ZZ	(marking)		umeric characters (not relevant for safety)	
	Note: Some option codes may be restricted for certain model types.				
Electrical Rating	10.530Vdc, 420mA				
Enclosure Rating	Type 4X/6P, IP66/68				
Temp. code, ambient (Ta) and process temp. (Tp)		$0^{\circ}C \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp \le 0^{\circ}C \le Ta \le +50^{\circ}C$ and $-40^{\circ}C \le Tp \le 0^{\circ}C$		Refer to installation drawings for additional temp. code (T3) and deratings of Ta relative to higher process temperatures (Tp $\leq$ +150°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: ≤35VDC, for IS device: ≤30VDC; 4-20mA



#### Notes

Ambient temperature range:

- Without LCD display: standard: -40 to +85 °C or optional: -60°C/-50°C to 85°C (when process connection is fully insulated)
- With LCD display: -40 to +60 °C with limitations in optical properties such as display speed and contrast). Can be used without limitations up to -20 to +60 °C
- Separate housing: -20 to +60 °C
- For process temperature higher than +85 °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.



### APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-20	General requirements — Canadian Electrical Code, Part II
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. 60529:2016	Degrees of protection provided by enclosures (IP Code)
CAN/CSA C22.2 No. 61010-1-12,	Safety Requirements for Electrical Equipment for Measurement,
UPD1: 2015, UPD2: 2016, AMD1:	Control, and Laboratory Use - Part 1: General Requirements
2018	
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"
CSA-C22.2 No. 213:2017	Non-incendive Electrical Equipment for Use in Class I and II,
+ UPD 1 (2018) + UPD 2 (2019)	Division 2, and Class III Hazardous (Classified) Locations
ANSI/IEC 60529: 2013, Edition 2.2	Degrees of protection provided by enclosures (IP Code)
UL 61010-1, 3rd edition (2012),	Safety Requirements for Electrical Equipment for Measurement,
AMD1: 2018	Control, and Laboratory Use - Part 1: General Requirements
FM3600-2018	Approval Standard for Electrical Equipment for Use in Hazardous
	(Classified) Locations - General Requirements
FM3610:2018	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
FM3616-2011	Approval Standard for Dust-Ignitionproof Electrical Equipment
	General Requirements
UL 50E-15	Enclosures for Electrical Equipment, Environmental Considerations
Second Edition	
UL 60079-0-2019	Explosive atmospheres – Part 0: Equipment – General requirements
UL 60079-1-2015	Explosive Atmospheres – Part 1: Equipment Protection by
	Flameproof Enclosures "d"
UL 60079-11	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic
Sixth Edition (March 28, 2014)	Safety "i"
ANSI/UL 121201-2017, Ninth	Non-incendive Electrical Equipment for Use in Class I and II,
Edition	Division 2, and Class III Hazardous (Classified) Locations
UL122701: 2017	Requirements for Process Sealing Between Electrical Systems and
Third Edition	Flammable or Combustible Process Fluids



# Supplement to Certificate of Compliance

Certificate: 80066208 Master Contract: 151079

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
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