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SIMO	Explosion Preventi	ion Services	(Pty) Ltd		T Fi E moil: admin	el: +27 (11) 3 ax: +27 (11) 3	316 4601 316 5670
	Reg No: 1999/027771/07			D TEOT I A		mgr@exploia	
STOLARS	GOV IN TERMS OF ARP 0108	VERNMEN B: "REGULATOR		ENTS FOR EXPL	LOSION PROTECTED A	APPARATUS"	WORK
				ICATE	Date Issued:	17 A	pr 2018 🍯
TOIL					*Expiry date:	17 A Page	pr 2021
SIVI	Ex – Type Examination C	Certificate				•	
	Certificate Number: Equipment:	S-XPL/15.0 Vortex Flov	446 vmeter				Savio
8	Model / Type:	Proline Pro	wirl C/D/F/R	/O 200			1
B PIOL		PO Box 783 Sandton	3996	LIU			
SIMIC	Manufacturer:	2146 Endress±H	auser Flowte	ec ΔG			Jake 1
BPIC	Serial No:	All serial nu	imbers impor	ted between	issued- and expire	e date and a	all serial [
Sav		numbers co	vered by a va	llid report or a	acceptable product	certification	mark.
		En	Supplie	ed by ser (Ptv) I to			
		Identified	d by Inspectio	n Authority n	umber		John
MPIOL			S-XPL/15.04	46			
	And as described in the Explo	olabs file nur	mber XPL/16	208/15.0446	is hereby certified	"Explosion F	Protected
MPIOL	requirements of South African	Standards.	g been exam	lined and ins	spected in accordan	nce with the	relevant 😹
4	SANS 60079-0: 2012 Ed 5						John
PIOLA	IEC 60079-0: 2011 Ed 6	Explosive a	atmospheres	Part 0: Equip	ment — General re	quirements	
	SANS 60079-1: 2009 Ed 4 IEC 60079-1: 2007 Ed 6	Explosive enclosures	atmospheres "d"	s Part 1: E	Equipment protection	on by flam	ieproof
IN COPIC	SANS 60079-11: 2012 Ed 4 IEC 60079-11: 2011 Ed 6	Explosive a	atmospheres	Part 11: Equi	ipment protection by	y intrinsic sa	fety "i"
MOLT	SANS 60079-15: 2010 Ed 4 IEC 60079-15: 2010 Ed 4	Explosive a "n"	atmospheres	Part 15: Equi	ipment protection by	y type of pro	tection
PIOLABS	IEC/SANS 60079-26: 2014	Explosive level (EPL)	atmospheres Ga	– Part 26: I	Equipment with equipment with equipment with equipment with the second	uipment pro	tection
	SANS 60079-31: 2014 Ed 2	Explosive	atmospheres	Part 31: E	quipment dust igni	ition protect	ion by 💈
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This report supersedes all previous documents bearing the reference no XPL/16208/15.0446.

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Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface
	Group			Temp (°C)
Very high	Ga Group II	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 0, 1 and 2	T6 (85 ℃) T1 (450 ℃)
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or	Equipment remains functioning in zones 1 and 2	T6 (85 ℃) T1 (450 ℃)
High	Db Group III	equipment where faults are normally taken into account	Equipment remains functioning in zones 21 and 22	Txx℃
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	T6 (85 ℃) T1 (450 ℃)

1. GENERAL

The marking of the Vortex Flowmeter shall include the following: Ex ia IIC T6 - T1 Ga Ex ia IIC T6 - T1 Ga/Gb Ex d [ia] IIC T6 - T1 Ga/Gc Ex ia IIC T6 - T1 Gb Ex d [ia] IIC T6 - T1 Gb Ex d [ia] IIC T6 - T1 Gb Ex nA [ia Ga] IIC T6 - T1 Gc Ex ic [ia Ga] IIC T6 - T1 Gc Ex ic IIC T6 - T1 Gc Ex nA IIC T6 - T1 Gc Ex tb III C Txx °C Db Ex tb [ia Da] III C Txx °C Db

Vortex Flowmeters Proline Prowirl C 200, Prowirl D 200, Prowirl F 200, Prowirl R 200 and Prowirl O 200 are used for the measurement of the volume flow of gases, liquids or steam. The transmitter consists of an electronics enclosure (the transmitter) and an integral or remote mounted sensor.

Depending on the applied interface, the sensor measurement signal is converted into an electrical output signal. All sensors of Flowmeters Proline Prowirl C 200, Prowirl D 200, Prowirl F 200, Prowirl R 200 and Prowirl O 200 are providing a connection facility for pressure measurement as an option.

On Flowmeters Proline Prowirl C/D/F/R/O 200, model codes 7*2B**-IA ... and O7*2B**-IA ... with an enclosure or sensor made of aluminium, the certificate reference number on the marking plate shall be followed by an "X", or the equipment marking shall include a warning mark. The instructions shall include specific conditions of use that allow safe use of the transmitters in an area where the application of equipment of Equipment protection Level (EPL) Ga is required.

On Flowmeters Proline Prowirl C/D/F/R/O 200, model codes 7*2B**- ... and O7*2B**- ... with an enclosure or sensor made of material containing by mass more than 7.5% of magnesium, titanium and zirconium, the certificate reference number on the marking plate shall be followed by an "X", or the equipment marking shall include a warning mark. The instructions shall include specific conditions of use that allow safe use of the transmitters in an area where the application of equipment of Equipment protection Level (EPL) Ga, Gb, Da or Db is required.

Equipment

Vortex Flowmeters series Proline Prowirl, for measurement of the volume flow of gases and liquids, based on the Vortex principle.

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		ANNEX TO CERTIFICATE NO S-XPL/15.0446 PAGE 3 OF 14	PIOL
P	Type d	esignation	8
	Proline	Prowirl C 200:	
2		code $\Box C C abb - ccdeignilik + # #;$	ē
P	Proline	Provirl D 200:	8
	1 101110	code 7D2abb - ccdefghiiik + #**#;	
2		code O7D2abb - ccdefghiiikl + #**#;	ē
P	Proline	Prowirl F 200:	8
Control of the second s		code 7F2abb - ccdefghiiik + #**#;	
	Prolino	code U/F2abb - ccdetgniliki + #""#	ē
P	FIUIIIE	code 7B2abb - ccdefahijik + #**#	8
		code O7R2abb - ccdefghiiikl + #**#;	1
2	Proline	Prowirl O 200:	<u>Mo</u>
3		code 7O2abb - ccdefghiiik + #**#;	8
	Dualias	code O7O2abb - ccdetghilikl + #**#;	- E
2	Proline	Promass 200 transmitter:	<u>No</u>
		$code / \Lambda \Sigma abb code ig + \pi \pi$	
	а	= Generation	MAK
2	В	= Prowirl C/D/F/R/O 200	
2	bb	= Size	New York
		combination of number(s) and letter(s) for sizes up to DN300 (2 digits)	
	CC	= Approval code	
21		IA = Ex ia IIC T6 - T1 Ga	No.
		IB = Ex ia IIC T6 - T1 Ga/Gb	E.
		IC, TC = Ex d [ia] IIC T6 - T1 Ga/Gb	
		ID = E X IC [Ia] IIC I6 - I1 Ga/GC	N
		$Ex nA [ia Ga] IIC T6 - T1 Gc^{1}$	Ę.
		H = Fx ic IIC T6 - T1 Gc	
		Ex ic [ia Ga] IIC T6 - T1 Gc ¹⁾	N
		IJ = Ex ia IIC T6 - T1 Gb	- E
		IK = Ex d [ia] IIC T6 - T1 Gb	
		14 = Ex Ia IIC 16 - 11 Ga/Gb	10
		Ex to file T \sim 0 Db \sim Fx to file Dal IIIC T** $^{\circ}$ C Db $^{1)}$	
		I5 = Ex d [ia] IIC T6 - T1 Ga/Gb	
P		Ex to IIIC T** °C Db	70
		Ex tb IIIC [ia Da] T** °C Db 1	
2	ام		
P	a ^		76
	В	=4 - 20 mA HART + pulse/frequency/switch output	M
2	Ċ	=4 - 20 mA HART + 4 - 20 mA	
P	D	= 4 - 20 mA HART + pulse/frequency/switch output + 4 - 20 mA input	20
	E	= Foundation Fieldbus + pulse/frequency/switch output	AR I
2	G	= Profibus PA + pulse/frequency/switch output	
	^		ē
	е	= Display, operation	E
		L, $M = prepared$ for FHX50	- -
		any other single number or letter	E
and a second sec	t	= Enclosure	18
2	a	any single number or letter	- -
	Э	any single number or letter	
	h	= Sensor version	8
		any single number or letter	
P.		This report supersedes all previous documents bearing the reference no XPL/16208/15.0446	1 1 <mark>6</mark> 8
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		X TO CER	TIFICATE	NO S-XPL	/15.0446	F	PAGE 4 OF 1	14		
k	any triple numbers or letters k = Calibration any single number or letter									
I **	 = Customer version any single number or letter ** = Option (no, two or multiples of two digits) any combination of numbers and letters 									
#	= Additiona	l options, no	ot relevant fo	or safety						
Note 1	: Approval co	de for Flow	meters with	Display cod	e e = L or M o	only				
Therm	nal data		F0 00 to	$70 \circ (1)^{2}$		-				
Amble	int temperatur	e range:	-50 °C to +	-70 ℃ ¹⁾²⁾	- remote Fl	owmeters, Tra	ansmitter			
Proces	ss temperatur	e range:	-60 ℃ to ⊣ -200℃ to	-85 ℃ +440 ℃	- remote Fl	owmeters, Se	ensor			
Note 1	: Minimum te	mperature	-60 ℃ for F	lowmeter w	ith approval c	code cc = IG	in combination	n witl		
I/O interface codes $d = A$, $d = B$ and $d = D$; Note 2: Maximum temperature restricted to +65 °C for transmitters with I/O code $d = D$ Note 3: For ambient temperaturs below -40 °C, only enclosure-variants without breathing element										
Note 2 Note 3	2: Maximum te 3: For ambien are allowed	emperature t temperatu	restricted to urs below -4	a a = D; +65 °C for 10 °C, only	transmitters v enclosure-va	vith I/O code of riants without	d = D breathing ele	emer		
Note 2 Note 3 The maxim tables	2: Maximum te 3: For ambien are allowed elation between num surface f	emperature t temperatu een ambien emperature	restricted to urs below -4 nt temperat T for the	a a = D; +65 °C for 10 °C, only ure, proces different mo	transmitters v enclosure-var s temperatu dels of Flow	vith I/O code of riants without re and temp meters is list	d = D t breathing ele perature class ted in the follo	emer s and owing		
Note 2 Note 3 The remaxim tables	2: Maximum te 3: For ambien are allowed elation betwee num surface t : 1 C/D/F/B/O 2	emperature t temperatu een ambieu emperature	restricted to urs below -4 nt temperat e T for the	a a = D; +65 °C for 0 °C, only ure, proces different mo	transmitters w enclosure-van s temperature dels of Flow val codes co	rith I/O code of riants without re and temp meters is list	d = D breathing ele berature class ted in the follo	emer s and owing		
Note 2 Note 3 The remaxim tables: <u>Prowir</u> 15, TC	2: Maximum te 3: For ambien are allowed elation betwe num surface t : 1 C/D/F/R/O 2	emperature t temperature een ambien eemperature 200 with I/C	restricted to urs below -4 nt temperate T for the code $d = A$	a = D; $a + 65 \ ^{\circ}C \ for $ a = 0; a = 0;	transmitters wenclosure-van s temperatur dels of Flow val codes cc	vith I/O code of riants without re and temp meters is list = IA, IB, IC, I	d = D breathing ele berature class ted in the folk <u>D, IG, IH, IJ, I</u>	emer s and owing IK, 14		
Note 2 Note 3 The romaxim tables <u>Prowir</u> 15, TC <u>Compa</u>	2: Maximum te 3: For ambien are allowed elation between the surface to 1: C/D/F/R/O 2 act versions	emperature t temperature een ambien eemperature	restricted to urs below -4 nt temperat T for the <u>0 code d = A</u>	a a = D; b +65 °C for l0 °C, only ure, proces different mo	transmitters wenclosure-van temperature odels of Flow wal codes cc	rith I/O code of riants without re and temp meters is list = IA, IB, IC, I	d = D breathing ele berature class ted in the follo <u>D, IG, IH, IJ, I</u>	emen s and owing IK, I4		
Note 2 Note 3 The maxim tables <u>Prowir</u> 15, TC <u>Compa</u>	2: Maximum te 3: For ambien are allowed elation betwe num surface t 1: 1: C/D/F/R/O 2 act versions	emperature t temperature een ambier emperature	restricted to urs below -4 nt temperat T for the code $d = A$	a a = D; +65 °C for 0 °C, only ure, proces different mo and Approv	transmitters v enclosure-van s temperatur dels of Flow val codes cc	rith I/O code of riants without re and temp meters is list = IA, IB, IC, I	d = D t breathing ele berature class ted in the follo D, IG, IH, IJ, I	emen s and owing IK, 14		
Note 2 Note 3 The r maxim tables: <u>Prowir</u> <u>15, TC</u> <u>Compa</u>	2: Maximum te 3: For ambien are allowed elation betwe num surface t 1: C/D/F/R/O 2 act versions o class (Txx)	200 with I/C	restricted to restricted to urs below -4 nt temperat Tor the code d = A T5 (100 °C)	Max. proces $Max. proces$	transmitters v enclosure-var s temperatur dels of Flow val codes cc val codes cc T3 (200 °C)	rith I/O code of riants without re and temp meters is list = IA, IB, IC, I	d = D to breathing electron ted in the follor D, IG, IH, IJ, I (450 ∞)	emer s an owin		
Note 2 Note 3 The r maxim tables <u>Prowir</u> <u>15, TC</u> <u>Compa</u> Temp	2: Maximum te 3: For ambien are allowed elation between the surface te 1: C/D/F/R/O 2 act versions 0 class (Txx) mb (max)	200 with I/C	restricted to restricted to urs below -4 nt temperat To the Code d = A T5 (100 °C)	Max. proces $Max. proces$ $Max. proces$	transmitters w enclosure-van s temperatu odels of Flow <u>val codes cc</u> <u>ess temperatu</u> T3 (200 ℃)	rith I/O code d riants without re and temp meters is list = IA, IB, IC, I = IA, IB, IC, I rre T2 (300 ℃)	d = D breathing ele berature class ted in the follo D, IG, IH, IJ, I T1 (450 °C)	emer s an owin IK, I4		
Note 2 Note 3 The romaxim tables <u>Prowir</u> <u>15, TC</u> <u>Compa</u> Temp	2: Maximum te 3: For ambien are allowed elation between the surface to act versions o class (Txx) mb (max) 40 °C ¹⁾	200 with I/C T6 (85 °C) 80 °C	restricted to restricted to urs below -4 nt temperat To the <u>0 code d = A</u> <u>T5</u> (100 ℃) 95 ℃	a d = D; b +65 °C for to °C, only ure, proces different mc <u>a and Approv</u> <u>Max. proce</u> <u>T4</u> (135 °C) 130 °C	transmitters v enclosure-van s temperatu idels of Flow <u>val codes cc</u> <u>ess temperatu</u> T3 (200 ℃) 195 ℃	rith I/O code of riants without re and temp meters is list = IA, IB, IC, I Ire T2 (300 ℃)	d = D to breathing electron ted in the follo D, IG, IH, IJ, I (450 ℃) 450 ℃ ²	emer s an owin IK, I4		
Note 2 Note 3 The r maxim tables: <u>Prowir</u> <u>15, TC</u> <u>Compa</u> Temp T _a	2: Maximum te 3: For ambien are allowed elation between the surface for act versions o class (Txx) mb (max) $10 \circ C^{11}$ $10 \circ C^{11}$	T6 (85 °C)	restricted to restricted to urs below -4 nt temperat a T for the 0 code d = A 0 code d = A T5 (100 ℃) 95 ℃ 95 ℃	a a = D; b +65 °C for to °C, only ure, proces different mo <u>a and Approv</u> <u>Max. proce</u> <u>T4</u> (135 °C) <u>130 °C</u> <u>130 °C</u>	transmitters v enclosure-van s temperatu idels of Flow <u>val codes cc</u> <u>ess temperatu</u> T3 (200 ℃) 195 ℃ 195 ℃	vith I/O code of riants without re and temp meters is list = IA, IB, IC, I (300 $^{\circ}$ C) 290 $^{\circ}$ C ²⁾	d = D to breathing electron ted in the follo D, IG, IH, IJ, I (450 °C) 450 °C ² 450 °C ²	emer s an owin IK, I4		
Note 2 Note 3 The r maxim tables <u>Prowir</u> <u>15, TC</u> <u>Compa</u> Temp T _a	2: Maximum te 3: For ambientiate are allowed elation between the surface te act versions 1 C/D/F/R/O 2 act versions 1 C/D/F/R/O 2 1 C/D/F/R/O 2	Expertational Expertational Example a ambient Example a ambient E	T, d = D an restricted to urs below -4 nt temperat ⇒ T for the 0 code d = A 0 code d = A T5 (100 °C) 95 °C 95 °C 95 °C	Max. proces Max. proces Max. proces Max. proces 130 °C 130 °C 130 °C 130 °C	transmitters v enclosure-van s temperatu odels of Flow <u>val codes cc</u> <u>val codes cc</u> <u>T3</u> (200 ℃) <u>195 ℃</u> <u>195 ℃</u> 195 ℃	rith I/O code of riants without re and temp meters is list = IA, IB, IC, I (300 ℃) 290 ℃ ²⁾ 290 ℃ ²⁾ 290 ℃ ²⁾	d = D to breathing electron to be a thing e	emer s and owing IK, I4		

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Note 3: Process temperature > 130 °C not allowed for versions with sensor specified for Tm ≤ 280 °C at T_{amb} > 65 ℃

Remote versions, transmitter

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Temp class (Txx)	T6	T5	T4
	(85 ℃)	(100 ℃)	(135 ℃)
Tamb (max)	40 ℃ ¹⁾	60 ℃ ¹⁾	75 ℃

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

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Remote versions, sensor

		Max. process temperature						
	T6	T5	T4	T3	T2	T1		
Temp class (TXX)	(85 °C)	(100 ℃)	(135 ℃)	(200 ℃)	(300 °C)	(450 °C)		
T _{amb} (max)								
55 °C	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		
70 °C		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		
85 °C			130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		

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Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Prowirl C/D/F/R/O 200 with I/O code d = B and Approval codes cc = IA, IB, ID, IH, IJ, I4

	Max. process temperature							
Temp class (Tyy)	T6	T5	T4	T3	T2	T1		
	(85 ℃)	(100 ℃)	(135 ℃)	(200 °C)	(300 °C)	(450 °C)		
Tamb (max)								
35 ℃ ^{1) 2)}	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ³⁾	450 ℃ ³⁾		
50 ℃ ^{1) 2)}		95 ℃	130 ℃	195 ℃	290 ℃ ³⁾	450 ℃ ³⁾		
60 °C			130 ℃	195 ℃	290 ℃ ³⁾	450 ℃ ³⁾		
65 °C			130 ℃	195 ℃	290 °C ^{3) 4)}	450 ℃ ³⁾		
70 °C			130 °C	195 ℃ ⁴⁾	290 °C ^{3) 4)}	450 °C ^{3) 4)}		

Note 1: For versions provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: For PFS circuit with Pi = 0.85 W, the maximum ambient temperature increases by 5 K

Note 3: Process temperature $\leq 280 \, \degree$ for versions with sensor specified for T_m $\leq 280 \, \degree$

Note 4: For versions with sensor specified for T_m ≤ 280 °C, the indicated maximum ambient temperature is applicable only if for the PFS circuit Pi = 0.7 W; for other sensors, the maximum ambient temperature is applicable if for the PFS circuit Pi = 0.85 W

Remote versions, transmitter

Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)
	35 ℃ ¹⁾	50 ℃ ¹⁾	70 ℃
Tamb (IIIax)	40 ℃ ^{1) 2)}	60 ℃ ^{1) 2)}	75 ℃ ²⁾

Note 1: For versions provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: Maximum ambient temperature applicable only if for the PFS circuit Pi = 0.85 W

Remote versions, sensor

		Max. process temperature						
Tomp alogg (Tyy)	T6	T5	T4	T3	T2	T1		
Temp class (TXX)	(85 °C)	(100 ℃)	(135 ℃)	(200 ℃)	(300 °C)	(450 °C)		
Tamb (max)								
55 °C	℃ 08	95 ℃	130 ℃	195 ℃	290 °C ¹⁾	450 ℃ ¹⁾		
70 °C		95 ℃	130 ℃	195 ℃	290 °C ¹⁾	450 ℃ ¹⁾		
85 °C			130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		

Note 1: Process temperature ≤ 280 °C for versions with sensor specified for $T_m \le 280$ °C

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Prowirl C/D/F/R/O 200 with I/O code d = B and Approval codes cc = IC, IG, IK, I5, TC

Compact versions

	Max. process temperature							
Temp class (Tyy)	T6	T5	T4	Т3	T2	T1		
	(85 °C)	(100 °C)	(135 ℃)	(200 °C)	(300 °C)	(450 °C)		
T _{amb} (max)								
40 °C	℃ 08	95 °C	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		
55 °C		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾		
65 °C			130 ℃	195 ℃	290 ℃ ^{1) 2)}	450 ℃ ¹⁾		
70 °C			130 ℃	195 ℃ ^{2) 3)}	290 °C ^{1) 2) 3)}	450 ℃ ^{1) 3)}		

Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Note 2: For versions with sensor specified for $T_m \le 280$ °C, the indicated maximum ambient temperature is applicable only if for the PFS circuit $P_{max} = 0.7$ W

Note 3: For sensors not restricted to T_m ≤ 280 °C, the maximum ambient temperature is applicable only if for the PFS circuit P_{max} = 0.85 W

Remote versions, transmitter

Tomp class (Tyy)	T6	T5	T4	
Temp class (TXX)	(85 °C)	(100 °C)	(135 ℃)	
Tamb (max)	40 ℃	55 °C	70 ℃ ¹⁾	

Note 1: Maximum ambient temperature 75 $\,^{\mathrm{o}}\!\!\mathrm{C}$ if for the PFS circuit P_{max} = 0.85 W

Remote versions, sensor

	Max. process temperature						
Tomp close (Tyy)	T6	T5	T4	Т3	T2	T1	
Temp class (TXX)	(85 °C)	(100 °C)	(135 °C)	(200 °C)	(300 °C)	(450 °C)	
Tamb (max)							
55 °C	°C 08	95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾	
70 °C		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾	
85 °C			130 °C	195 ℃	290 °C ¹⁾	450 °C ¹⁾	

Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Prowirl C/D/F/R/O 200 with I/O code d = C and Approval codes cc = IA, IB, IC, ID, IG, IH, IJ, IK, I4, I5, TC

Compact versions

	Max. process temperature					
Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)	T3 (200 ℃)	T2 (300 ℃)	T1 (450 ℃)
T _{amb} (max)	(00 0)	((100 0)	(100 0)	(000 0)	(100 0)
40 °C ¹⁾	30 ℃	95 ℃	130 ℃	195 ℃	290 °C ²⁾	450 ℃ ²⁾
55 ℃ ¹⁾		95 ℃	130 ℃	195 ℃	290 ℃ ²⁾	450 °C ²⁾
60 ℃			130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ²⁾
65 °C			130 ℃	195 ℃	290 ℃ ^{2) 4)}	450 ℃ ^{2) 4)}
70 °C			130 ℃	195 ℃ ^{3) 5)}	290 ℃ ^{3) 5)}	450 ℃ ^{3) 5)}

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Note 3: For versions with sensor specified for $T_m \le 280 \ ^{\circ}C$, the maximum ambient temperature is 70 $^{\circ}C$ for a maximum process temperature of 130 $^{\circ}C$

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Note 4: For versions with sensor specified for $T_m \leq 280 \$ °C, the maximum ambient temperature is 65 ℃ if suppy/output circuit at terminals 3 and 4 is not used (Pi = 0 W or P_{max} = 0 W)

Note 5: For versions with sensor not restricted to T_m ≤ 280 °C, the maximum ambient temperature is 70 °C if the suppy/output circuit at terminals 3 and 4 is not used (Pi = 0 W or Pmax = 0 W) Remote versions, transmitter

Temp class (Txx)	T6	T5	T4
	(85 ℃)	(100 ℃)	(135 ℃)
Tamb (max)	40 ℃	55 ℃ ¹⁾	75 ℃ ²⁾

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: The maximum ambient temperature is 75 °C if the suppy/output circuit at terminals 3 and 4 is not used (Pi = 0 W or $P_{max} = 0 W$)

Remote versions, sensor

		Max. process temperature				
Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)	T3 (200 ℃)	T2 (300 ℃)	T1 (450 ℃)
Tamb (max)						
55 °C	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
70 ℃		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
85 °C			130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾

Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Prowirl C/D/F/R/O 200 with I/O code d = D and Approval codes cc = IA, IB, IC, ID, IG, IH, IJ, IK, I4, 15, TC

Compact versions

		Max. process temperature					
Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)	T3 (200 ℃)	T2 (300 ℃)	T1 (450 ℃)	
T _{amb} (max)							
35 ℃ ¹⁾	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ³⁾	
50 ℃ ¹⁾		95 ℃	130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ³⁾	
55 °C				195 ℃	290 ℃ ²⁾	450 ℃ ³⁾	
60 °C				195 ℃	290 ℃ ³⁾	450 ℃ ³⁾	
65 °C					290 °C ³⁾		

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: Process temperature \leq 280 °C for versions with sensor specified for Tm \leq 280 °C Note 3: T1, T2 not applicable for versions with sensor specified for $T_m \le 280$ °C

Remote versions, transmitter

Temp class (Txx)	T6	T5	T4
	(85 ℃)	(100 ℃)	(135 ℃)
T _{amb} (max)	35 ℃ ¹⁾	50 ℃ ¹⁾	65 ℃ ²⁾

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

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Remote versions, sensor

	Max. process temperature					
Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)	T3 (200 ℃)	T2 (300 ℃)	T1 (450 ℃)
T _{amb} (max)						
55 °C	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
70 °C		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
85 °C			130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾

Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Prowirl C/D/F/R/O 200 with I/O codes d = E and G and Approval codes cc = IA, IB, IC, ID, IG, IH, IJ, IK, I4, I5, TC

Compact versions

	Max. process temperature					
Temp class (Txx)	T6 (85 ℃)	T5 (100 ℃)	T4 (135 ℃)	T3 (200 ℃)	T2 (300 ℃)	T1 (450 ℃)
T _{amb} (max)						
40 ℃ ¹⁾	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ²⁾
50 ℃ ^{1) 3)}		95 ℃	130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ²⁾
℃ 00			130 ℃	195 ℃	290 ℃ ²⁾	450 ℃ ²⁾
65 °C			130 ℃	195 ℃	290 ℃ ^{2) 4)}	450 ℃ ^{2) 4)}
70 °C			130 ℃	195 ℃ ⁵⁾	290 ℃ ^{2) 5)}	450 ℃ ^{2) 5)}

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

Note 3: Maximum ambient temperature is 60 °C if PFS circuit not used Note 4: For versions with sensor specified for T_m ≤ 280 °C, the maximum ambient temperature is 65 °C if PFS circuit rot used

Note 5: Maximum ambient temperature is 70 °C if PFS circuit not used

Remote versions, transmitter

Temp class (Txx)	T6	T5	T4
	(85 ℃)	(100 ℃)	(135 ℃)
Tamb (max)	40 ℃ ¹⁾	55 ℃ ¹⁾	70 ℃ ²⁾

Note 1: For versions with approval code IA, IB, ID, IH, IJ, I4 and provided with option OVP or TRM, for temperature class T6 and T5, the maximum ambient temperature decreases by 2 K

Note 2: The maximum ambient temperature is 75 °C if PFS circuit not used

Remote versions, sensor

	Max. process temperature					
Temp class (Txx)	T6	T5	T4	T3	T2	T1
,	(85 °C)	(100 °C)	(135 °C)	(200 °C)	(300 °C)	(450 °C)
T _{amb} (max)						
55 °C	℃ 08	95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
70 °C		95 ℃	130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾
85 °C			130 ℃	195 ℃	290 ℃ ¹⁾	450 ℃ ¹⁾

Note 1: Process temperature \leq 280 °C for versions with sensor specified for T_m \leq 280 °C

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	ANNEX TO CERTIFICATE NO S-XPL/15.0446 PAGE 9 OF 14	NOIN
SIM	Electrical data Prowid C/D/E/B/O 200 with Approval codes cc – IA, IB, IJ, IA and I/O code d – A	
	Supply/output circuit (terminals 1 and 2):	
2	in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit	t, 🎇
NON	Ui = 30 V ; Ii = 300 mA ; Pi = 1 W ; Ci = 5 nF ; Li = 0 mH .	PIO
ð	Santias connector:	
OW	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or an	y 🦉
Ē.	other certified interface, with following maximum values:	
	00 = 7.3 V; $10 = 100$ MA; $P0 = 160$ MW; $CI = 0$ MF; $LI = 0$ MH.	
DO	Prowirl C/D/F/R/O 200 with Approval codes $cc = IA$, IB, IJ, I4 and I/O code $d = B$	
P	supply/output circuit (terminals 1 and 2): in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit	t. 🍓
OWNO	with following maximum values:	
Ā	$U_i = 30 V; I_i = 300 mA; P_i = 1 W; C_i = 5 nF; L_i = 0 mH;$	
SIM	output circuit (terminals 3 and 4):	
	with following maximum values:	', 📘
47° 81	Ui = 30 V; li = 300 mA; Pi = 1 W; Ci = 6 nF; Li = 0 mH.	
	Service connector:	Savio
Þ	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or an	у 🌏
MIS	other certified interface, with following maximum values: Uo = 7.3 V: Io = 100 mA: Po = 160 mW: Ci = 0 nF: Li = 0 mH.	M
2		8
	Prowirl C/D/F/R/O 200 with Approval codes $cc = IA$, IB, IJ, I4 and I/O code $d = C$ Supply/output circuit (terminals 1 and 2):	
MON	in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit	t, 통
ð	with following maximum values:	
SIM		
	supply/output circuit (terminals 3 and 4): in type of protection intrinsic safety Ex is IIC, only for connection to a certified intrinsically safe circuit	t 🧟
	with following maximum values:	ייייי
NOIM	Ui = 30 V; li = 300 mA; Pi = 1 W; Ci = 30 nF; Li = 0 mH.	8
ð	Service connector:	OLIN
SIMIC	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or any other certified interface, with following maximum values:	у ╞
Ĕ.	$U_0 = 7.3 \text{ V}; \text{ Io} = 100 \text{ mA}; \text{ Po} = 160 \text{ mW}; \text{ Ci} = 0 \text{ nF}; \text{ Li} = 0 \text{ mH}.$	
8	Prowirl C/D/F/R/O 200 with Approval codes $cc = IA IB II IA$ and I/O code $d = D$	OIM
	Supply/output circuit (terminals 1 and 2):	
P	in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit with following maximum values:	t, 🔁
OW	Ui = 30 V ; li = 300 mA ; Pi = 1 W ; Ci = 5 nF ; Li = 0 mH ;	8
	output circuit (terminale 2 and 4);	OLIN
8	in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit	t, 통
NOI	with following maximum values:	
(P) (N)	UI = 3UV; II = 3UU IIIA; PI = 1 VV; UI = 6 NP; LI = 0 MP;	
NO	input circuit (terminals 5 and 6):	
S	in type of protection intrinsic safety EX Ia IIC, only for connection to a certified intrinsically safe circuit with following maximum values:	L, <mark>10</mark>
S	Ui = 30 V; li = 300 mA; Pi = 1 W; Ci = 5 nF; Li = 0 mH.	8
D		IOL
P	DOCUMENT No: XPL0213 RELEASE DATE: 19/03/2018 REV: 6 This report supersedes all previous documents bearing the reference no XPL/16208/15.0446).
4	PRIOLES APRIOLES	S

S CLU	ars Arpholars Arpholars Arpholars Arpholars Arpholars Arpholars Arpholars Ar	HOLARS BEPLOLARS BEPLOLARS
- Como	ANNEX TO CERTIFICATE NO S-XPL/15.0446	PAGE 10 OF 14
LOLARS (SPIOLARS	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	e Interface FXA291 or any
Approvance (Appr	<u>Prowirl C/D/F/R/O 200 with Approval codes cc = IA, IB, IJ, I4 and I/O codes</u> Supply/output circuit (terminals 1 and 2): in type of protection intrinsic safety Ex ia IIC, only for connection to a certifi with following maximum values: Ui = 30 V; Ii = 300 mA; Pi = 1.2 W; Ci = 5 nF; Li = 10 μ H;	s d = E, G ed intrinsically safe circuit,
- BUIOLARK	or in accordance with FISCO, with following maximum values: Ui = 17.5 V; Ii = 550 mA; Pi = 5.5 W; Ci = 5 nF; Li = 10 μ H;	
LOUNS APPOUND	supply/output circuit (terminals 3 and 4): in type of protection intrinsic safety Ex ia IIC, only for connection to a certifi with following maximum values: Ui = 30 V; Ii = 300 mA; Pi = 1 W; Ci = 6 nF; Li = 0 mH.	ed intrinsically safe circuit,
STATION STATE	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	e Interface FXA291 or any
SIMOMIE	<u>Prowirl C/D/F/R/O 200 with Approval codes cc = IC, IG, IK, I5, TC and I/O (</u> Supply/output circuit (terminals 1 and 2): $U_N = 35 \text{ V dc } U_m = 250 \text{ V}.$	code d = A
SUNDING	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	e Interface FXA291 or any
OLARS - SPIIOLARS	<u>Prowirl C/D/F/R/O 200 with Approval codes cc = IC, IG, IK, I5, TC and I/O of Supply/output circuit (terminals 1 and 2):</u> $U_N = 35 \text{ V dc}$ $U_m = 250 \text{ V}.$	<u>code d = B</u>
SIMO SIMO	Output circuit (terminals 3 and 4): $U_N = 35 \text{ V dc}$ $U_m = 250 \text{ V}$	
SINION SINION	P _{max} = 1 W NOTE: this circuit is functionally limited by an internal resistance of 760.5 determined	Ω ; herewith Pmax may be
SINIOLINE	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	e Interface FXA291 or any
STATISTICS CONTRACTOR	<u>Prowirl C/D/F/R/O 200 with Approval codes cc = IC, IG, IK, I5, TC and I/O o</u> Supply/output circuits (terminals 1 and 2; 3 and 4): $U_N = 30 \text{ V dc } U_m = 250 \text{ V}.$	<u>code d = C</u>
PLOLARS (BPLIOLARS	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	e Interface FXA291 or any
er Grioi	DOCUMENT No: XPL0213 RELEASE DA This report supersedes all previous documents bearing the refer ANS CORPORATE CONTRACTOR OF THE PROPERTY OF TH	NTE: 19/03/2018 REV: 6 ence no XPL/16208/15.0446.

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IOLARS ADMOLARS	<u>Prowirl C/D/F/R/O 200 with Approval codes cc = IC, IG, IK, I5, TC and I/O code d = D</u> Supply/output circuit (terminals 1 and 2): $U_N = 35 V dc Um = 250 V.$	Sumonas
TOLANS	Output circuit (terminals 3 and 4): $U_N = 35 V dc$ $U_m = 250 V$ $P_{max} = 1 W.$	Worker Sam
STIOLAR	NOTE: this circuit is functionally limited by an internal resistance of 760.5 Ω; herewith Pmax ma determined Input circuit (terminals 5 and 6):	y be
SINOLIS	$U_{N} = 35 \text{ V dc}$ $U_{m} = 250 \text{ V}.$ Service connector:	SWOLE
SINOLI	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or other certified interface, with following maximum values: Uo = 7.3 V; lo = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	any 🏅
R CENIOLNES	Prowirl C/D/F/R/O 200 with Approval codes $cc = IC$, IG, IK, I5, TC and I/O codes $d = E$, G Supply/output circuit (terminals 1 and 2): $U_N = 32 V dc$ $U_m = 250 V$	Survey.
LAIS (BPIOLA	$P_{max} = 0.88 \text{ W}$ Supply/output circuit (terminals 3 and 4): $U_N = 35 \text{ V dc}$	Worker Street
OLARS -	O _m = 250 V P _{max} = 1 W NOTE: this circuit is functionally limited by an internal resistance of 760.5 Ω; herewith Pmax ma determined.	y be
PIOLNS	Service connector: in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	any
A NOUNS	<u>Prowirl C/D/F/R/O 200 with Approval codes $cc = ID$, IH and I/O code $d = A$</u> Supply/output circuit (terminals 1 and 2): in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit,	with 🙀
STHOMAS	following maximum values: Ui = 35 V; Ii = N/A; Pi = 1 W; Ci = 5 nF; Li = 0 mH. Service connector:	OLAR STATE
STATION COMPANY	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.	any
STIOURS	<u>Prowirl C/D/F/R/O 200 with Approval codes $cc = ID$, IH and I/O code $d = B$</u> Supply/output circuit (terminals 1 and 2): in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit, following maximum values:	with
S - C - C - C - C - C - C - C - C - C -	Ui = 35 V; Ii = N/A; Pi = 1 W; Ci = 5 nF; Li = 0 mH. Output circuit (terminals 3 and 4): in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit.	with
ETOLA	following maximum values: <u>DOCUMENT No: XPL0213</u> <u>RELEASE DATE: 19/03/2018</u> <u>REV: 6</u> This report supersedes all previous documents bearing the reference no XPL/16208/15.0)446.
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2 GPIOL	nes Azploures "A					
MON	ANNEX TO CERTIFICATE NO S-XPL/15.0446 PAGE 12 OF 14					
	$U_i = 35 V; I_i = N/A; P_i = 1 W; C_i = 6 nF; L_i = 0 mH.$					
NOL						
49°	Service connector:					
NOU	other certified interface, with following maximum values: Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.					
OLARS	Prowirl C/D/F/R/O 200 with Approval codes $cc = ID$, IH and I/O code $d = C$					
	Supply/output circuit (terminals 1 and 2):					
STADOLAS	following maximum values: Ui = 30 V; Ii = N/A; Pi = 1 W; Ci = 30 nF; Li = 0 mH;					
3	supply/output circuit (terminals 3 and 4):					
	following maximum values: Ui = 30 V; Ii = N/A; Pi = 1 W; Ci = 30 nF; Li = 0 mH.					
NAN	Service connector:					
	in type of protection intrinsic safety Ex ia IIC, for connection of E+H Service Interface FXA291 or any					
SILVIOLARS	Uo = 7.3 V; Io = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.					
*	Prowirl C/D/F/R/O 200 with Approval codes cc = ID, IH and I/O code d = D					
SIMO	in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit, with					
A	Ui = 35 V; Ii = N/A; Pi = 1 W; Ci = 5 nF; Li = 0 mH;					
STIOLING	Output circuit (terminals 3 and 4): in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit, with					
SILVIO	following maximum values: Ui = 35 V; Ii = N/A; Pi = 1 W; Ci = 6 nF; Li = 0 mH;					
	Input circuit (terminals 5 and 6):					
SIN	in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit, with gefollowing maximum values:					
	Ui = 35 V; li = N/A; Pi = 1 W; Ci = 5 nF; Li = 0 mH;					
SIVI	Service connector:					
	other certified interface, with following maximum values:					
SIM	Uo = 7.3 V; lo = 100 mA; Po = 160 mW; Ci = 0 nF; Li = 0 mH.					
	Prowirl C/D/F/R/O 200 with Approval codes cc = ID, IH and I/O codes d = E, G Supply/output circuit (terminals 1 and 2):					
	in type of protection intrinsic safety Ex ic IIC, only for connection to a certified intrinsically safe circuit,					
	With following maximum values: Ui = 32 V; li = 300 mA; Pi = N/A; Ci = 5 nF; Li = 10 μ H;					
	or in accordance with FISCO, with following maximum values: Ui = 17.5 V; Ii = N/A; Pi = N/A; Ci = 5 nF; Li = 10 μ H;					
	supply/output circuit (terminals 3 and 4):					
- APMON	with following maximum values: Ui = 35 V; Ii = 300 mA; Pi = 1 W; Ci = 6 nF; Li = 0 mH.					
STOLARS	Service connector:					
(P)	DOCUMENT No: XPL0213 RELEASE DATE: 19/03/2018 REV: 6 This report supersedes all previous documents bearing the reference no XPL/16208/15.0446.					
PERIOURS						



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	ANNE	X TO CERTIFICATE NO	O S-XPL/15.0446	PAGE 14 OF 14		
6.	MARKING The following (or s Supplier Manufacturer Equipment	similar) information have to : Endress + Hauser (Pty) L : Endress+Hauser Flowted : Vortex Flowmeter	be clearly and permanently td : AG	v marked on all units:		
A PUID	Model/Type Serial No.	: Proline Prowirl C/D/F/R/C :	200	PIOLAS		
SIMOLUE	Ex Rating	Ex la IIC 16 - 11 Ga Ex ia IIC 16 - 11 Ga/Gb Ex d [ia] IIC 16 - 11 Ga/C Ex ic [ia] IIC 16 - 11 Ga/C	ab ac			
SIMOLAE		Ex ia IIC T6 - T1 Gb Ex d [ia] IIC T6 - T1 Gb Ex nA [ia Ga] IIC T6 - T1	Gc			
SINOUR		Ex ic [ia Ga] IIC T6 - T1 (Ex ic IIC T6 - T1 Gc Ex nA IIC T6 - T1 Gc Ex th III C Txx °C Db	Go	Samolar		
LIOUAN	IA Certificate No	Ex tb [ia Da] III C Txx ℃ : S-XPL/15.0446	Db	TOLANS		
This certified that the appropriate initial titic initial the appropriate init	ication indicates compliance oparatus is used as relevant SANS 10086 and IEC/SAI Any conditions mentioned Any relevant requirements	e with R10.1 of the Mines Health and S t in accordance with: NS 61241-14 requirements as applicab in the above report; s and codes of practice enforced in te	afety Act and/or EMR 9(2) of the Occu le; rms of the Mine Health and Safety Ac	pational Health and Safety Act, provided		
iv) v) vi)	and Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety. A revision certificate replaces all previous version of the certificate.					
Vií)	 vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Viii) If and when your QAN (Quality Assurance Notification) Certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd 					
	Responsible Tes	ting Officer:	Reviewed by:			
TOLIC	1. Lan Jaden P van Staden	~	D Maree			
STOLAR	Testing Officer EXPLOLABS EXI	PLOSION PREVENTION S	Senior Testing Officer ERVICES	(Evolutabe (Pbi)) Ltd chall not be liable for		
AN COPROLEM	any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us; This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd					
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BPIOLNE				ANDIAR STATUS		
STRIOUNE			CUMENT No: XPL0213 RELEASE	E DATE: 19/03/2018 REV : 6		
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