9700 MK2 transmitter submersible hydrostatic level transmitter

9700 transmitter

- Factory sealed and tested for submersed duty
- Good long-term stability

Features

- 2 wire 24V DC loop powered
- 4 to 20mA, remote zero and span option
- Accuracy +/- 0.1% of calibrated span
- Ranges from 0.2 to 100m H₂O
- 10:1 rangeability
- Ceramic capacitive sensor
- Low maintenance
- Fully submersible IP68
- Reverse polarity protection
- Intrinsically safe option

Description

The 9700 series electronic pressure/ level transmitter is designed to perform in the arduous conditions of today's level measurement applications.

Using temperature compensated, surface mount electronics and a ceramic capacitive sensor, the 9700 provides an accuracy of better than +/-0.1% of calibrated span and excellent long term stability. Mounting options enable simple installation in situations from service tanks to remote reservoirs.

All versions can be mounted in areas subject to flooding and are rated IP68 (except 9795 type rated IP67).

Operation

At the heart of the 9700 is the Ceramic Capacitive pressure Sensor (CCS). The CCS provides a "flush" diaphragm, avoiding the risks of sensor clogging and ensures extremely low hysteresis, minimal output drift and high repeatability. With traditional sensors, process build up on the diaphragm face can result in an unreliable measurement, requiring regular servicing of the sensor.

The CCS used in the 9700 series is virtually immune to the effects of process build up due to a maximum sensor deflection of only 0.025mm, compared with up to 1.5mm for convental sensors.

The ceramic sensor provides outstanding corrosion resistance. The 9700 provides reliable and low maintenance measurement year after year.

For measurements up to 300 bar, the series 9000 pressure transmitter offers a cost effective solution for most pressure measurement applications. The series 9000 also features a CCS and 0.1% accuracy. For further information, ask for data sheet number 0077.





Specification

Functional

	9710, 9720, 9780, 9790 & 9797 Submersible	9795 External			
Output signal:	Two-wire, 4-20mA	Two-wire, 4-20mA			
Power supply:	10 to 30 Vdc	10 to 30V dc			
Load resistance:	R=50 x (supply voltage-10V) Ω	R=50 x (supply voltage-10V) Ω			
Measuring range:	0.2 to 100m H_2^0 (See note)	0.2 to 100m H_20 (See Note)			
Overrange limit:	5 x range up to a max 120m H_2^0	5 x range up to a max 120m H_2O			
Zero adjustment:	-20 to + 40% Span	-20 to + 40% Span			
Span adjustment:	+10 to + 100% URL*	+10 to + 100% URL*			
Process temp. limits:†	-20 to + 90°C (80°C EEx ia)	-20 to +125°C (FPM/FKM seal rings)			
		-30 to +110°C (Buna N seal rings)			
		-30 to +110°C (Chemraz [®] seal rings) #			
Ambient temp. limits:	-20 to + 90°C (80°C EEx ia)	-20 to + 90°C (80°C EEx ia)			
Humidity limits:	0 to 100% RH***	0 to 100% RH			
Hazardous area certification:	ATEX II 1 G and ATEX II 1 D	ATEX II 1 G and ATEX II 1 D			
	EEx ia IIB T4	EEx ia IIB T4			

Note *** : When terminated using the 9710/077 vented terminal box

Performance

	9710, 9720, 9780, 9790 & 9797 Submersible	9795 External		
Accuracy:	+/- 0.1% ** of calibrated span	+/- 0.1% ** of calibrated span		
Stability:	+/- 0.1% URL* per 6 months	+/- 0.1% URL* per 6 months		
Temperature effect:	+/-0.015% URL per °C	+/-0.015% URL per ^o C		
(over ambient temp. range)				

Physical

	9710, 9720, 9780, 9790 & 9797 Submersible	9795 External		
Cable entry:	Glanding system supplied with required	M20/PG13.5 cable gland for cable		
	length of vented cable	5 to 9mm (cable not supplied)		
Wetted Parts:				
Sensor:	Ceramic	Ceramic		
Sensor housing:	316 Stainless Steel, Aluminium Bronze	316 Stainless Steel, Aluminium		
	or Titanium	Bronze or Titanium		
Seal rings:	Fluorocarbon (FPM/FKM), Buna N	Fluorocarbon (FPM/FKM), Buna N or		
	or Chemraz [®] #	Chemraz [®] #		
Cable:	Polyurethane	Not supplied		
	Flourinated Ethylyene Polypropylene			
	coated			
Ingress protection:	IP68 (120m H ₂ 0)	IP67		
Approximate weight:	0.7Kg (sensor only)	0.7Kg		
Meantime between failure:	Integral electronics : 40 years			
	Remote electronics : 37 years			

* URL = Upper range limit ** includes effects of linearity, hysteresis and repeatability † For process temperatures above 90°C, temperature barrier must be specified.

Chemraz[®] is a registered trademark of Green Tweed. Chemraz[®] only available on Industrial models, not marine version.

Product Overview

Simple installation, low maintenance

The 9700 is available in both submersible versions and externally mounted (floodable) versions. The housing contains the capacitive ceramic sensor and the electronics circuit board, all the components needed to produce an accurate and

Protected from aggressive environments and processes

The transmitter is designed to withstand the harshest of environments. Its rugged, flush ceramic sensor is inherently capable of withstanding attack from most chemicals.

Mounting options

The 9700 is available in various mounting configurations, all are rated IP68 with the exception of the 9795 which is IP67.

- 9710 Cable suspended
- 9720 Clamped
- 9780 Pole mounted
- 9790 Flanged •
- 9797 Threaded 11/2" BSPP male

reliable measurement of the process. The glanding system used with the submersible versions ensures absolute integrity of the IP68 rating. IP68 units are generally factory fitted with the required length of vented cable fitted.

Temperature limits for the CCS are

-30°C to +125°C. The process

-20°C to + 90°C for submersible

versions (+80°C for EEx ia versions).

In order to simplify installation, all

Remote zero and span allows zero

removing sensor from process, this

Integral zero and span versions

require a vented terminal box for

option includes an IP67 junction box.

cable termination* (not required with

*Available as option (part no. 9710/ 077). Essential when venting into

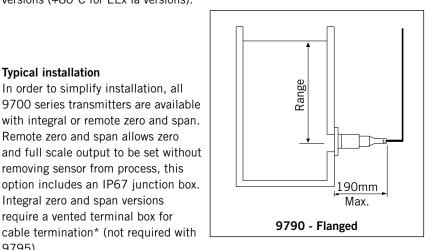
areas of high humidty.

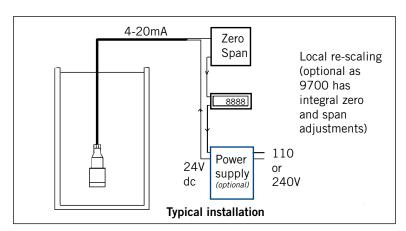
temperature is limited to

Typical installation

9795).

Pole length Tank must Range be vented [48mm Vented tank 48mm Dia 9780 - Pole mounted

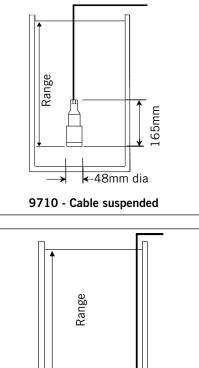


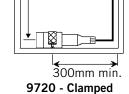


APPROVALS

Hazardous area certification : ATEX II 1 G ATEX II 1 D (90°c) EExi a IIB T4 Intrinsically Safe

Marine approvals : Lloyds Register Bureau veritas American Bureau of Shipping Korean Register





Ordering Information : Industrial Version

Code Sensity Uper Consistence IP68 10 Cable suspended, submersible IP68 90 Flanged, submersible IP68 91 IP68 IP68 92 IP68 IP68 93 Hanged, submersible IP68 94 IP68 IP68 95 Mobrey Thames' fitting (X* BSPP running nut) IP68 96 Electronics enclosure and process connection material Stainless steel 316 S31 A Aluminum bronze Tratanium (Note: non-wetted parts in 316 st. st. Code 1 IHP5 - Fluorocarbon (FPM/FKM) E Processon (PM/FKM) 2 HP5 - Buorocarbon (FPM/FKM) E O to 20m H,0 O to 10 Da Barg 20m H,0 2 Code None M,0 O to 10 Da Barg 20m H,0 Do to 100m H,0 ID to 100m H,0 2 O to 20m H,0 O to 10 Da Barg 120m H,0 ID to 100m H,0 <t< th=""><th>97</th><th>9700</th><th>Series.</th><th>electro</th><th>onic hv</th><th>drostati</th><th>c level</th><th>transmi</th><th>tter -</th><th>Industrial version</th></t<>	97	9700	Series.	electro	onic hv	drostati	c level	transmi	tter -	Industrial version						
10 Cable suspended, submersible IP68 20 Clamped, submersible IP68 90 Flanged, submersible IP68 91 IW* BSPP male, submersible IP68 92 IW* BSPP male, submersible IP68 93 IW* BSPP male, submersible IP68 94 IW* BSPP male, submersible IP68 95 Stainless steel 316 S31 A A Aluminum bronze ITatanium (Note: non-wetted parts in 316 st. st. 1 IPS - Fluorocarbon (FPM/FKM) IPS - Buna N 2 IPS - Buna N Oterrange limit 3 Chermaz*- available only on 9780, 9790 slip on flange, 9795 & 9797 Inon-wetted seals in Fluorocarbon (FPM/FKM) 2 HPS - Buna N Ote 10 to 10 Bar g) 10m H,0 3 Ote 2m H,0 (Ot to 2.0 Bar g) 10m H,0 4 Ote Non H,0 (Ot to 10 Bar g) 120m H,0 5 Ote 10m H,0 (Ot to 10 Bar g) 120m H,0 6 Ote Som H,0 (Ot to 10 Bar g) 120m H,0 7 Ote Non M,0 (Ot to 10 Bar g) 120m H,0 6 Ote Som H,0 (Ot to 10 Bar g) 120m H,0 7 Ote Som H,0 (Ot to 10 Bar g) 120m H,0 8 <th></th>																
20 Clamped, submersible IP68 90 Flanged, submersible IP68 91 Iv' BSPP male, submersible IP68 92 Iv' BSPP male, submersible IP68 93 Statiniess steel 316 S31 A A Aluminum bronze I 1 IPS - Fluoroschon (FPM/FKN) 2 2 HPS - Buna N 3 3 Chemraze - available only on 9780, 9790 slip on flange, 9795 & 9797 (non-wetted seals in Fluorocarbon (FPM/FKM) 2 4 PS - Buna N 3 Chemraze - available only on 9780, 9790 slip on flange, 9795 & 9797 (non-wetted seals in Fluorocarbon (FPM/FKM) 2 4 PS - Buna N 3 Chemraze - available only on 9780, 9790 slip on flange, 9795 & 9797 (non-wetted seals in Fluorocarbon (FPM/FKM) 2 4 PS - Buna N 3 Chemraze - available only on 9780, 9790 slip onlight with order 6 0 to 2m H_0 0 to 10. Barg 100m H_0 1 Integral (note 1) 2 Remote 2120m H_0		10				submer	sible			IP68						
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Code Nominal range Overrange limit A 0 to 2m H ₂ 0 (0 to 0.2 Bar g) 10m H ₂ 0 B 0 to 5m H ₂ 0 (0 to 0.5 Bar g) 25m H ₂ 0 C 0 to 10m H ₂ 0 (0 to 1.0 Bar g) 50m H ₂ 0 D 0 to 20m H ₂ 0 (0 to 2.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 2.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 1.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 1.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 1.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 1.0 Bar g) 120m H ₂ 0 F 0 to 100m H ₂ 0 (0 to 1.0 Bar g) 120m H ₂ 0 F Remote 7700 Non-15 only 270m N ₂ Code Polyurethane Specify cable length with order F F FEP Specify cable length with order F F FEP Specify cable length with order F F FEP Specify cable length with order																
A 0 to 2m H,0 (0 to 0.5 Bar g) 10m H,0 B 0 to 5m H,0 (0 to 1.0 Bar g) 25m H,0 C 0 to 10m H,0 (0 to 2.0 Bar g) 100m H,0 D 0 to 50m H,0 (0 to 2.0 Bar g) 100m H,0 F 0 to 100m H,0 (0 to 1.0 Bar g) 120m H,0 F 0 to 100m H,0 (0 to 1.0 Bar g) 120m H,0 Code Zero and span 1 Integral (note 1) Zemote 3 Local 9780 Non-IS only Code Cable material X None 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order G None certified - Safe area use only 1 1 AFEX II 1 G, EEX ia IIB T4, ATEX II 1 D (+90°C) Code Code Approval None Silp-on flange 1*# 150 ANS																
B 0 to 5m H ₂ ⁰ (0 to 0.5 Bar g) 25m H ₂ ⁰ (0 to 2.0 Bar g) 100m H ₂ ⁰ (0 to 2.0 Bar g) 100m H ₂ ⁰ (0 to 2.0 Bar g) 100m H ₂ ⁰ (0 to 2.0 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to 10 Bar g) 120m H ₂ ⁰ (0 to						0 to	2m H_0)	(0 to	0.2 Bar g) 10m H ₂ 0						
F 0 to 50m H,0 (0 to 10 Bar g) 120m H,0 Code Zero and span 1 Integral (note 1) 2 Remote 3 Local 9795 supplied without cable 3 Local 9795 supplied without cable P P Polyurethane Specify cable length with order F F FEP Specify cable length with order F F FEP Specify cable length with order F F FEP Specify cable length with order F Code Approval 0 Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Forcess connection A Slip-on flange DN40 (DIN 2635) f not 9780 B Fixed flange DN50 PN40 (DIN 2635) F not 9780 B Fixed flange DN80 PN40 (DIN 2635) F fixed flange 1* # 150 ANSI B16.5 Not 9780 F fixed flange 2* # 150 ANSI B16.5 F fixed flange 2* # 150 ANSI B16.5 V 3/w BSP Prunning nut 9795 only V Silpen flange I* # 150 ANSI B16.5 G fixed flange 3* # 150 ANSI B16.5 G Copper					В	0 to	5m H_0)	(0 to	0.5 Bar g) 25m H ₂ 0						
E 0 to 50m H,0 (0 to 10 Bar g) 120m H,0 Code Zero and span 1 Integral (note 1) 2 Remote 3 Local 9780 Non-IS only Code Zero and span 1 Integral (note 1) 2 2 Remote 3 Local 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order F FE Sipo-on flange DN40 (DIN 2635) † not 9780 Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Forcess connection A Sipo-on flange DN40 (DIN 2635) † not 9780 B Fixed flange DN50 PN40 (DIN 2635) C Fixed flange DN80 PN40 (DIN 2635) F Fixed flange 2" # 150 ANSI B16.5 V 3/w BSP running nut 9795 only 3/w 1852P running nut 9795 only <th></th> <th></th> <th></th> <th></th> <th>С</th> <th>0 to</th> <th>10m Ĥ</th> <th>,0</th> <th>(0 to</th> <th>1.0 Bar g) 50m H₂0</th>					С	0 to	10m Ĥ	,0	(0 to	1.0 Bar g) 50m H ₂ 0						
E 0 to 50m H,0 (0 to 10 Bar g) 120m H,0 Code Zero and span 1 Integral (note 1) 2 Remote 3 Local 9780 Non-IS only Code Zero and span 1 Integral (note 1) 2 2 Remote 3 Local 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order F FE Sipo-on flange DN40 (DIN 2635) † not 9780 Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Forcess connection A Sipo-on flange DN40 (DIN 2635) † not 9780 B Fixed flange DN50 PN40 (DIN 2635) C Fixed flange DN80 PN40 (DIN 2635) F Fixed flange 2" # 150 ANSI B16.5 V 3/w BSP running nut 9795 only 3/w 1852P running nut 9795 only <th></th> <th></th> <th></th> <th></th> <th>D</th> <th>0 to</th> <th>20m H</th> <th><u>,</u>0</th> <th>(0 to</th> <th>2.0 Bar g) 100m H_2^{-0}</th>					D	0 to	20m H	<u>,</u> 0	(0 to	2.0 Bar g) 100m H_2^{-0}						
Code Zero and span 1 Integral (note 1) 2 Remote 3 Local 9780 Non-IS only Code Cable material 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN30 PN40 (DIN 2635) f not 9780 B Fixed flange DN40 PN40 (DIN 2635) Ford Fixed flange DN50 PN40 (DIN 2635) F F Fixed flange DN80 PN40 (DIN 2635) F Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 2" # 150 ANSI B16.5 F Fixed flange 2" # 150 ANSI B16.5 V 3" BSPP running nut 9795 only Y None 9710 & 9720 Code Pole material Note 2 O None 1 Stainless steel 316 S31 2 V V V Steelel 0 None <th></th> <th></th> <th></th> <th></th> <th>E</th> <th>0 to</th> <th>50m H</th> <th>,0</th> <th>(0 to</th> <th>5.0 Bar g) 120m H₂0</th>					E	0 to	50m H	,0	(0 to	5.0 Bar g) 120m H ₂ 0						
1 Integral (note 1) Remote 3 Local 9780 Non-IS only Code Cable material X None 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G , EEx ia IIB T4, ATEX II 1 D (+90°C) Code Porcess connection A Slip-on flange DN25 PN40 (DIN 2635) † not 9780 B F ixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN50 PN40 (DIN 2635) D F ixed flange DN80 PN40 (DIN 2635) F Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) F Fixed flange 2" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only Y W G 1½" A (1½" BSPP) 9797 only X None 1 Stainless steel 316 S31 2 Mild steel Cooper Nickel Code Temperature barrier Note 3 0 No 1 Yes 9795 only 1					F					10 Bar g) 120m H ₂ 0						
2 Remote 3 Local 9780 Non-IS only Code Cable material X None 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order F FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G , EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) thot 9780 B F Fixed flange DN40 PN40 (DIN 2635) C Code Process connection A A Slip-on flange DN30 PN40 (DIN 2635) D F Fixed flange DN80 PN40 (DIN 2635) F F Fixed flange 2" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 F V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 1 Stainless steel 316 S31 V ¾" BSP running nut 9795 only X Code																
3 Local 9780 Non-IS only X None 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order O Non certified - Safe area use only 1 1 G. EEx ia IIB T4, ATEX II 1 D (+90°C) 1 ATEX II 1 G., EEx ia IIB T4, ATEX II 1 D (+90°C) 1 ACCde Process connection A Slip-on flange DN25 PN40 (DIN 2635) f not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN50 PN40 (DIN 2635) E Slip-on flange 1*# 150 ANSI B16.5 F Fixed flange 2*# 150 ANSI B16.5 F Fixed flange 3*# 150 ANSI B16.5 V ¾* BSPP running nut 9795 only W G 1½* A (1½* BSPP) 9797 only None 1 Stainless steel 316 S31 2 Mild steel 3 3 Copper Nickel 1 Yes 9795 only 1 Yes 9795 only 1									te 1)							
Code Cable material X None 9795 supplied without cable P Polyurethane Specify cable length with order F FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G, EEX ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) f not 9780 B Fixed flange DN40 PN40 (DIN 2635) Code Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 1" # 150 ANSI B16.5 G Fixed flange 1" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only None 1 Stainless steel 316 S31 2 Mild steel 3 3 Copper Nickel Code V V No 1 Y Yes 9795 only																
X None 9795 supplied without cable Polyurethane Specify cable length with order FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) fnot 9780 Fixed flange DN40 PN40 (DIN 2635) D Fixed flange DN40 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 2" # 150 ANSI B16.5 V % W G 1½" A (1½" BSPP) 9797 only None 9710 & 9720 V W Go None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel V V V Yes 9795 only Yes						3										
P Polyurethane Specify cable length with order FEP Specify cable length with order O Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN40 PN40 (DIN 2635) trot 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 F Fixed flange 3" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9710 & 9720 V Q None 9710 & 9720 V None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel Q No 1 Yes 9795 only																
F FEP Specify cable length with order O Non certified - Safe area use only I ATEX II 1 G , EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) † not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 2" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9710 & 9720 V ¾" BSPP running nut 9710 & 9720 X None 9710 & 9720 X None 9710 & 9720 X None 1 Stainless steel 316 S31 2 X Noe 1 Yes 9795 only Yes 9795 only Yes 9795 only																
Code Approval 0 Non certified - Safe area use only 1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) † not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN40 PN40 (DIN 2635) D Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 F Fixed flange 2" # 150 ANSI B16.5 F Fixed flange 3" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 V Wild steel 3 Copper Nickel G O No 1 Yes 9795 only V V V V V V V							-		retilalie							
0 Non certified - Safe area use only 1 ATEX II 1 G , EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) † not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 2" # 150 ANSI B16.5 V 3/4" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 Code Pole material Note 2 0 None 3 Copper Nickel 3 Copper Nickel 1 4 Yes 9795 only								_	Appr							
1 ATEX II 1 G, EEx ia IIB T4, ATEX II 1 D (+90°C) Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) f not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN80 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V 34" BSPP running nut 9795 only W Q 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 V V None 9710 & 9720 V None 9797 only X X None 9710 & 9720 V None 9795 only Y V None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel V Ves 9795 only V Ves 9795 only																
Code Process connection A Slip-on flange DN25 PN40 (DIN 2635) †not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V 3/4" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 X None 1 Stainless steel 316 S31 2 Mild steel Cooper Nickel V Yes 9795 only								-								
A Slip-on flange DN25 PN40 (DIN 2635) † not 9780 B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 Code Pole material Note 2 0 None 1 Stainless steel 316 S31 2 Mild steel 3 3 O No 1 4 Yes 9795 only								Ī								
B Fixed flange DN40 PN40 (DIN 2635) C Fixed flange DN50 PN40 (DIN 2635) D Fixed flange DN80 PN40 (DIN 2635) E Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 not 9795 only G Fixed flange 3" # 150 ANSI B16.5 9795 only W G 1½" A (1½" BSPP running nut 9795 only X None 9710 & 9720 X None 9710 & 9720 X None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel V No 1 Yes 9795 only									Α	Slip-on flange DN25 PN40 (DIN 2635) † <i>not 9780</i>						
D Fixed flange DN80 PN40 (DIN 2635) Slip-on flange 1" # 150 ANSI B16.5 not 9780 F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V 3/4" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 X None 9710 & 9720 X None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel V Yes 9795 only									В							
E Slip-on flange 1" # 150 ANSI B16.5 not 9780 Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V 3/4" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only X None 9710 & 9720 X None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel Q No 1 Yes 9795 only									С	Fixed flange DN50 PN40 (DIN 2635)						
F Fixed flange 2" # 150 ANSI B16.5 G Fixed flange 3" # 150 ANSI B16.5 V 34" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only None 9710 & 9720 0 None V X None 9710 & 9720 Code Pole material Note 2 0 None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel 3 Code Temperature barrier Note 3 0 No 1 Yes 9795 only									D	Fixed flange DN80 PN40 (DIN 2635)						
G Fixed flange 3" # 150 ANSI B16.5 34" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only None 9710 & 9720 Code Pole material Note 2 0 None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel Code Temperature barrier Note 3 0 No 1 Yes 9795 only									E	Slip-on flange 1" # 150 ANSI B16.5 not 9780						
V ¾" BSPP running nut 9795 only W G 1½" A (1½" BSPP) 9797 only None 9710 & 9720 Code Pole material Note 2 O None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel Q No 1 Yes 9795 only										Fixed flange 2" # 150 ANSI B16.5						
W G 1½" A (1½" BSPP) 9797 only None 9710 & 9720 Code Pole material Note 2 O None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel I Yes 9797 only																
X None 9710 & 9720 Code Pole material Note 2 0 None 1 Stainless steel 316 S31 X Mild steel 3 Code Temperature barrier Note 3 O No 1 Yes 9795 only																
Code Pole material Note 2 0 None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel 6 No 1 Yes 9795 only																
0 None 1 Stainless steel 316 S31 2 Mild steel 3 Copper Nickel 4 Code 7 Temperature barrier 0 No 1 Yes 9795 only									X							
1 Stainless steel 316 S31 2 Mild steel 3 Code 4 Code 5 0 1 Yes 9795 only																
2 Mild steel 3 Copper Nickel 4 Code 7 No 1 Yes 9795 only																
3 Copper Nickel Code Temperature barrier No No Yes 9795 only																
Code Temperature barrier Note 3 0 No 1 Yes 9795 only																
0 No 1 Yes 9795 only																
1 Yes 9795 only																
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																
97 10 S 1 A 1 P 1 E 1 0 Typical ordering code	\checkmark	¥	\checkmark	¥	\checkmark	¥	4	\checkmark	\checkmark	\downarrow \downarrow						
	97	10	S	1	Α	1	Р	1	Е	1 0 Typical ordering code						

Note 1: Calibrated to user requirements during manufacture, not field adjustable. (9795 *is* field adjustable)

Note 2: Specify number of equally spaced joints required. The pole is supplied in 6' lengths up to the required length
Note 3: Used to reduce risk of condensation forming on electronics housing when combination of low process and high ambient temperature is possible. Also required when process temperature may exceed 194°F

† Fixed flange on Aluminum Bronze option.

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Order information : Marine version

97 9700	M Ser	ries, eleo	ctronic	hydros	Marine version	Marine version								
10M	Cable	Electronics enclosure and process connection material Cable suspended, submersible IP68												
20M	Clam	ped, submersible IP68												
80M			nount, submersible IP68											
90M		,	d, submersible IP68											
95M			'Thames' fitting (¾" BSPP running nut) IP67											
97M			PP male, submersible IP68											
			Electronics enclosure and process connection material											
	S	Stainl	ess ste	el 316	S31									
	Α	Alumi	nium b	ronze										
	T	Titaniı	ītanium											
		Code												
		1				n (FPM/	FKM)							
		2		- Buna										
			1		nal ran					Overrange limit				
			Α		2m H ₂ C			0.2 Ba		10m H_20				
			В		5m H ₂ C			0.5 Ba	-	25m H_20				
			C		10m H			1.0 Ba		50m H ₂ 0				
			D		20m H			2.0 Ba		100m H ₂ 0				
			E		50m H	.0		5.0 Ba		120m H ₂ 0				
			F		00m H	20		10 Bar		120m H ₂ 0				
			G		1 m H ₂ C			0.1 Ba		5m H ₂ 0				
			H		3.5m H		(0 10	0.35 B	arg)	17.5m H ₂ 0	1			
			J K		20 Bar 70 Bar					60 Bar g 105 Bar g	} } Note 3			
				1	300 Ba	-				400 Bar g	i Note S			
						and spa	n			400 Dai g]			
				1		ral (no								
				2	Remo									
					Code		e materi	al						
					X	None								
					Р	Polyu	irethane	e (Spec	cify cable	length with order)				
					F	FEP				length with order)				
						Code		rical ap						
						0				ea use only				
						1				3 T4 , ATEX II 1D (+	90°C)			
							Code		ess connec					
							A			DN25 PN40 (DIN 2				
							B			DN40 PN40 (DIN 2				
							C		0	DN50 PN40 (DIN 2				
							D			DN80 PN40 (DIN 2				
							E F			ANSI B16.5 1" # 15 ANSI B16.5 2" # 15				
							G			ANSI B16.5 3" # 1				
							V		SPP runni		9795 only			
							Ŵ		2" A (1½"		9797 only			
							x	None			-			
	X None 9710 & 9720 Code Pole material Note 2													
	0 None													
		1 Stainless steel 316 S31												
			3 Copper Nickel											
									Code	Temperature bar	rier			
									0	No				
										1				
A A	4	4	4	A	4	4	¥	4	A					
97 10M	S	1	Α	1	Р	1	В	1	0	Typical orderii	ng code			

Note 1: Calibrated to user requirements during manufacture, not field adjustable. (9795 is field adjustable)

Note 2: Specify number of equally spaced joints required. The pole is supplied in 6' lengths up to the required length.

Note 3: Check relevant flange tables if temperature is greater than 50°C.

† Fixed flange on Aluminum Bronze option.