## GE Measurement & Control

# UNIK 5000 Pressure Sensing Platform

The new UNIK 5000 is a high performance configurable solution to pressure measurement. The use of Druck silicon technology and analogue circuitry enables best in class performance for stability, low power and frequency response. The new platform enables you to easily build up your own sensor to match your own precise needs. This high performance, configurable solution to pressure measurement employs modular design and lean manufacturing techniques to offer:



## **High Quality**

With 35 years of pressure measurement experience, our field-proven Druck silicon technology is at the heart of the new platform, resulting in a range of high quality, high stability pressure sensors.

## **Bespoke as Standard**

Custom-built from standard components, manufacturing sensors to your requirement is fast and simple; each UNIK 5000 is a "bespoke" pressure sensing solution, but with the short lead times and competitive pricing you would expect from standard products.

## Expertise

We have the people and the knowledge to support your needs for accurate and reliable product performance; our team of experts can help you make the right sensor selection, guiding you and providing the help and tools you need. It is important to ensure that the sensor material and performance selected are suitable for your application.

## Features

- Ranges from 70 mbar (1 psi) to 700 bar (10,000 psi)
- Accuracy to ±0.04% Full Scale (FS) Best Straight Line (BSL)
- Stainless Steel construction
- Frequency response to 3.5 kHz
- High over pressure capability
- Hazardous Area certifications
- mV, mA, voltage and configurable voltage outputs
- Multiple electrical & pressure connector options
- Operating temperature ranges from –55 to 125°C (-67 to 257°F)



## 5000 Specifications

## Measurement

#### **Operating Pressure Ranges**

#### Gauge ranges

Any zero based range between 70 mbar and 70 bar (1 to 1,000 psi) (values in psi are approximate)

#### **Sealed Gauge Ranges**

Any zero based range between 10 and 700 bar (145 to 10,000 psi)

#### **Absolute Ranges**

Any zero based range between 100 mbar and 700 bar (1.5 to 10,000 psi)

#### **Differential Ranges**

#### Wet/Dry

Uni-directional or bi-directional 70 mbar to 35 bar (1 to 500 psi)

#### Wet/Wet

Uni-directional or bi-directional 350 mbar to 35 bar (5 to 500 psi)

Line pressure: 70 bar max (1000 psi)

#### **Barometric Ranges**

Barometric ranges are available with a minimum span of 350 mbar (5.1 psi)

#### Non Zero Based Ranges

Non zero based ranges are available. Please contact GE Sensing to discuss your requirements

#### **Over Pressure**

- $10 \times FS$  for ranges up to 150 mbar (2 psi)
- $6 \times FS$  for ranges up to 700 mbar (10 psi)
- $2 \times FS$  for barometric ranges
- 4 × FS for all other ranges (up to 200 bar for ranges ≤70 bar and up to 1200 bar for ranges >70 bar)

For differential versions the negative side must not exceed the positive side by more than:

- $6 \times FS$  for ranges up to 150 mbar (2 psi)
- $4 \times FS$  for ranges up to 700 mbar (10 psi)
- 2 × FS for all other ranges up to a maximum of 15 bar (200 psi)

#### **Containment Pressure**

Ranges up to 150 mbar (2 psi) gauge 10 x FS Ranges up to 70 bar (1000 psi) gauge 6 x FS (200 bar (2900 psi) max) Ranges up to 70 bar (1000 psi) absolute 200 bar (2900 psi) Ranges above 70 bar (1000 psi) 1200 bar (17400 psi)

Differential (-ve port) must not exceed positive port by more than  $6 \times FS$  (15 bar (200 psi) maximum)

### Supply and Outputs

Electronics Option	Description	Supply voltage (V)	Output	Current Consumption (mA)
0	mV Passive	2.5 to 12	10 mV/V^	<2 at 10 V
1	mV Linearised	7 to 12	10 mV/V^	<3
2	mA	7 to 28**	4-20 mA	<30
3	0 to 5 V 4-wire	7 to 16**	0 to 5 V	<3
4	0 to 5 V 3-wire	7 to 16**	0 to 5 V*	<3
5	1 to 6 V 3-wire	7 to 16**	1 to 6 V	<3
6	0 to 10 V 4-wire	12 to 16**	0 to 10 V	<3
7	0.5 to 4.5 V Ratiometric	5.0 ± 0.5	0.5 to 4.5 V	<3
8	Isolated/Configurable (4 wire)	7 to 36	See below	See below
9	Configurable (3 wire)	7 to 36	See below	See below

 $^{\rm A}$  with a 10 volt supply mV output sensors give 100 mV over the full scale pressure.

• Output is ratiometric to the supply voltage

• Output reduces pro-rata for pressure ranges below 350 mbar (5 psi) \*0 to 5 V 3-wire output is non true zero. At pressures below 1% of span the output will be fixed at approximately 50 mV

\*\*7 to 32 V in non-hazardous area operation

#### Isolated/Configurable (Option 8) or Configurable (Option 9)

Any pressure signal output configurations will be available, subject to the following limitations:

- Minimum span: 2 V
- Maximum span: 20 V
- Output limits: ±10 V
- Maximum zero offset: ± span

• Output voltage range can be specified to a resolution of 0.1 V Reverse output response to pressure is available. The output will continue to respond to 110% FS. i.e. if a 0 to 10 V output is specified, the output will continue to increase proportionally to applied pressure until at least 11 V. Current consumption is <20 mA @ 7 Vdc supply, reducing to <5 mA @ 32 Vdc supply. On startup <100 mA drawn for 10 ms typically.

Shunt calibration: not available with reverse output. Note: Restricted to 80°C (176°F) for these options.

#### Examples

Allowed	Not Allowed
-10 to 0 V	0 to 12 V (outside ±10 V limits)
0 to 5 V	6 to 10 V (offset too big)
-5 to +5 V	0 to 0.5 V (span too small)
-2 to 10 V	
1 to 6 V	
10 to 0 V	

#### **Power-Up Time**

- mV, Voltage and current versions: 10 ms
- Isolated/configurable version: 500 ms

#### Insulation

- 500 Vdc: 100 M  $\Omega$
- 500 Vac:  $\leq$  5 mA leakage current (mV and mA versions only).

#### **Shunt Calibration**

Shunt Calibration provides a customer accessible connection which, when applied, causes a shift in output of 80% FS in order to simulate applied pressure. It is fitted to the mV and Isolated/Configurable versions as standard. It is not available with DIN or M12 x 1 electrical connectors. (options 7, D and G)

Shunt calibration is activated in different ways depending on the electrical connector and version:

- mV versions: connect Shunt Cal to -ve Supply or, where available, connect both Shunt Cal connections together.
- Isolated/Configurable version: connect Shunt Cal to -ve Output or, where available, connect both Shunt Cal connections together.

Note: Not available with reverse output.

## **Performance Specifications**

There are three grades of performance specification: Industrial, Improved and Premium

#### Accuracy

#### Voltage, Current and mV Linearised

Combined effects of non-linearity, hysteresis and repeatability: Industrial: ±0.2% FS BSL Improved: ±0.1% FS BSL Premium: ±0.04% FS BSL

#### **General Certifications**

RoHS 2002/95/EC CRN Certified 0F13650.513467890YTN for pressure ranges up to and including 350 bar (5000 psi)

#### **CE Conformity**

Pressure Equipment Directive 97/2	23/EC
ATEX 94/9/EC (Optional)	
EMC Directive 2004/108/EC	
BS EN 61000-6-1: 2007	Susceptibility - Light Industrial
BS EN 61000-6-2: 2005	Susceptibility - Heavy Industrial (except mV versions)
BS EN 61000-6-3: 2007	Emissions - Light Industrial
BS EN 61000-6-4: 2007	Emissions - Heavy Industrial
BS EN 61326-1: 2006	Electrical Equipment for Measurement,
	Control and Laboratory Use
BS EN 61326-2-3: 2006	Particular requirements for pressure transducers

#### Hazardous Area Approvals (optional)

General applications	IECEX/ATEX Intrinsically Safe 'ia' Group IIC
	• FM Approved (Canada & US) Intrinsically Safe Exia Class I, Division 1,
	Groups A, B, C & D and Class I, Zone 0 AEx/Ex ia Group IIC; Single Seal
Mining applications	IECEx/ATEX Intrinsically Safe 'ia' Group I

mV Passivemer accessible≤ 70 barrauses a shift in outputIndustrial/Improved:

±0.2% FS BSL

Premium not available > 70 bar Industrial/Improved: ±0.5% FS BSL Premium not available

Note: For the barometric pressure range, accuracy is of span, not full scale.

#### Zero Offset and Span Setting

Demountable electrical connector options allow access to potentiometers that give at least  $\pm 5\%$  FS adjustment (see Electrical Connector section)

#### Factory set to:

Product Description	Industrial	Improved and Premium
Current and Voltage Versions (Demountable Electrical Connections and Cable Gland)	±0.5% FS	±0.2% FS
Current and Voltage Versions (All Other Electrical Connections)	±1.0% FS	±1.0% FS
mV Versions	±3.0 mV	±3.0 mV

#### Long Term Stability

 $\pm 0.05\%$  FS typical ( $\pm 0.1\%$  FS maximum) per year increasing pro-rata for pressure ranges below 350 mbar

For full certification details, refer to the type-examination certificates (or approval listings) and Hazardous Area Installation Instructions.

#### **Temperature Effects**

Four compensated temperature ranges can be chosen. Industrial Accuracy performance:  $10 \text{ to } \pm 50 \text{ °C} (14 \text{ to } \pm 122 \text{ °E}) = \pm 0.75\% \text{ ES}$ 

-10 to +50 °C (14 to +122 °F):	±0.75% FS
	Temperature error
	band (TEB)
-20 to +80 °C (-4 to 176 °F):	±1.5% FS TEB
-40 to +80 °C (-40 to 176 °F):	±2.25% FS TEB
-40 to +125 °C (-40 to 257 °F):	±2.25% FS TEB
Improved and Premium Accuracy	/ performance:
-10 to +50 °C (14 to +122 °F):	±0.5% FS TEB
-20 to +80 °C (-4 to 176 °F):	±1.0% FS TEB
-40 to +80 °C (-40 to 176 °F):	±1.5% FS TEB
-40 to +125 °C (-40 to 257 °F):	±1.5% FS TEB

Temperature effects increase pro-rata for pressure ranges below 350 mbar (5 psi) and are doubled for barometric ranges.

#### Line Pressure Effects (Differential Version Only)

Zero shift: <±0.03% span/bar of line pressure Span shift: <±0.03% span/bar of line pressure Effects increase pro-rata for differential pressure ranges below 700 mbar (10 psi).

### **Physical Specifications**

#### **Environmental Protection**

- See Electrical Connector section
- Hyperbaric Pressure: 20 bar (300 psi) maximum

#### **Operating Temperature Range**

See Electrical Connector section

#### **Pressure Media**

Fluids compatible with Stainless Steel 316L and Hastelloy C276.

For the wet/dry differential version, negative pressure port: fluid compatible with stainless steel 316L, stainless steel 304, pyrex, silicon and structural adhesive.

#### **Enclosure Materials**

Stainless steel (body), nitrile- or silicone-rubber (o-rings, gaskets), EPDM (gaskets, depth cone), PTFE (vent filter), Nickel plated brass (lock rings), glass filled nylon (electrical connector assemblies), delrin (depth cone). Cable sheaths as specified (see Electrical Connector).

#### **Pressure Connector**

Available options are

- G1/4 Female\*
- G1/4 Male Flat

- G1/4 Male 60° Internal Cone
- G1/4 Male Flat Long
- G1/4 Male Flat with Snubber
- G1/4 Male Flat with Cross Bore Protection
- G1/4 Quick Connect
- G1/8 Male 60° Internal Cone
- G1/2 Male via Adaptor\*
- 1/4 NPT Female\*
- 1/4 NPT Male
- 1/8 NPT Male
- 1/2 NPT Male via Adaptor
- 7/16-20 UNF Female
- 7/16-20 UNF Male Short Flat
- 7/16 UNF Long 37° Flare Tip
- 7/16-20 UNJF Male 74° External Cone
- 3/8-24 UNJF
- 1/4 Swagelok Bulkhead
- M10 X 1 80° Internal Cone
- M12 X 1 60° Internal Cone
- M14 X 1.5 60° Internal Cone
- M20 X 1.5 Male
- Depth Cone (G1/4 Female Open Face)
- M12 x 1.0 74° External Cone
- Quick Release Male
- VCR Female
- VCR Male

Choose connectors marked \* for pressure ranges over 70 bar. Other pressure connectors may be available, contact GE to discuss your requirement.

#### **Electrical Connector**

## Various electrical connector options are available offering different features:

Code Number	Description	Max Operatin	IP rating	Zero span	
Number		°C	۴F	runng	Adjust
0	No Connector	-55 to +125	-67 to +257	-	Y
1	Cable Gland	-40 to +80	-40 to +176	65	Ν
2	Raychem Cable	-55 to +125	-67 to +257	65	Ν
3	Polyurethane Depth	-40 to +80	-40 to +176	68	Ν
4	Hytrel Depth	-40 to +80	-40 to +176	68	N
6/E	Bayonet MIL-C-26482	-55 to +125	-67 to +257	67	Ν
7	DIN 43650 Form A Demountable	-40 to +80	-40 to +176	65	Y
A/F	Bayonet MIL-C-26482 Demountable	-55 to +125	-67 to +257	65	Y
С	1/2 NPT Conduit	-40 to +80	-40 to +176	65	Ν
D	Micro DIN (9.4 mm pitch)	-40 to +80	-40 to +176	65	Ν
G	M12x1 4pin	-55 to +125	-67 to +257	67	N
К	Zero Halogen Cable Demountable	-40 to +80	-40 to +176	65	Y
М	Tajimi R03-R6F	-25 to +85	-13 to +185	65	Ν

Note: Electronics output options 8 and 9 are restricted to a maximum operating temperature of 80°C (176°F). Note: Hazardous area approved versions are restricted to a maximum operating temperature range of -40°C to 80°C (-40°F to 176°F).

### **Electrical Connector**

Connector Type	Option			Electronics Option						
	code		4 to 20 mA	Voltage (3-wire)	Voltage (4-wire)	Isolated/ Configurable	Configurable (3-wire)	mV		
Molex	0	1 Red	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
		2 Yellow	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		3 Green	-	-	-ve Output	-ve Output	0V common	-ve Output		
		4 Blue	-ve Supply	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		5 Orange	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		6 Black	Case	Case	Case	Case	Case	-		
Cable	1, 3, 4, C	Red	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
Not Raychem)		Yellow	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		Blue	_	-	-ve Output	-ve Output	0V common	-ve Output		
		White	-ve Supply	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		Orange	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		-	_	_		-	-	-		
		Black			-					
	2	Screen	-	-	-	-	-	-		
Raychem Cable	2	Red	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
		White	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		Green	-	-	-ve Output	-ve Output	0V common	-ve Output		
		Blue	-ve Supply	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		Black	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		Screen	-	-	-	-	-	-		
Bayonet	6, A	А	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
		В	-ve Supply	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		С	-	-	-ve Output	-ve Output	0V common	-ve Output		
		D	-	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		E	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		F	-	-	-	-	-	Shunt Cal		
DIN A	7	1	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
Micro DIN	D	2	-ve Supply	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		3	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		E	Case	Case	-ve Output	-ve Output	0V common	-ve Output		
Bayonet	E, F	A	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
Alternative Wiring	L, I	В	,							
Options			-	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		С	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		D	-ve Supply	-	-ve Output	-ve Output	0V common	-ve Output		
		E	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		F	-	-	-	Shunt Cal	Shunt Cal	-		
412 X 1	G	1	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
i-Pin		2		+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		3	-ve Supply	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		4	Case	Case	-ve Output	-ve Output	0V common	-ve Output		
Zero Halogen	К	Pink	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
Cable		White	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
Demountable)		Green	_	-	-ve Output	-ve Output	0V common	-ve Output		
		Blue	-ve Supply	- 0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		Grey	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		Brown	-	-	-	-	-	-		
		Yellow	-	-	-	-	-	-		
		Screen	-	-	-	-	-	-		
ajimi 103-R6F	М	А	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply		
00-101		В	-	0V common	-ve Supply	-ve Supply	0V common	-ve Supply		
		С	-ve Supply	Case	Case	Case	Case	-		
		D	-	-	-ve Output	-ve Output	0V common	-ve Output		
		E	Case	+ve Output	+ve Output	+ve Output	+ve Output	+ve Output		
		F	-	-	Shunt cal	Shunt cal	Shunt Cal	Shunt cal		

#### **Ordering Information** See the online configuration tool at www.unik5000.com

(1) Select model number

<pre>Provide Version: PDCS ************************************</pre>	(1) Sel	(1) Select model number							
PDDE with Presults Transmission with Presults Transmissions 5 Difference and Metrial 0 Commerced Metrial 0 Com	Main P	roduct Variant							
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6       MiL-2-2642 (kpin Skell Size 10) (Moning connector not supplied)         7       DN 14-2642 (kpin Skell Size 10) (Moning connector not supplied)         017       DT 20 or monitoble Mining connector not supplied)         017       DT 20 or monitoble Mining connector not supplied)         017       DT 20 or monitoble Mining connector not supplied)         017       DT 20 or monitoble Mining connector not supplied)         017       DT 20 or DT 20 or monitoble Mining connector not supplied)         017       DT 20 or									
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D       Mice DIN 94 Amm Picht Miching connector not supplied)         E       Mice 2-5682 (bp in Shell Size 10) Alternative Wiring (Mating connector not supplied)         G       Mile 3: 4 np. note, Microsoft Size 10) Alternative Wiring (Mating connector not supplied)         K       Zam Halogen Connector not supplied)         K       Zam Halogen Collector Size Demountable         M       Textmice Pictor         0       mW Lenceded Aver PICOR         2       4 to 20 mA2 wire (PICN Note 1         3       0 to 5 V = wire (PICN Note 4.5         3       10 to 5 V Clip Link Alternative PICN Note 4.5         8       Biolard/Confignmentod - wire PICN Note 4.5         9       Configurable - Ware (PICN Note 4.5         10       - 200 to 300 (FIA to -17.6 ft)         10       - 200 to 300 (FIA to -17.6 ft)         10       - 200 to 300 (FIA to -17.6 ft)         10       - 200 to 300 (FIA to -17.6 ft)         110       - 200 (F									
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Percentable ML-C-26482 (6 pn ISABI See 10) Attended Connector not supplied     Model Connector Supplied     Zero Holdgen Cable Demountable     Zero Holdgen Cable Demountable     Toy in Michael See 10 Material Sector Secto									
K       Zero Hologier Collic Demountable         M       Topini MS3-Roff         Electronics Option       0         1       mV Increased 4-wire (PDCR)         2       4 to 20 nA 2-wire (PMR)         3       0 13 V 3-wire (PMR)         4       10 to 3 varie (PMR)         5       0 13 V 3-wire (PMR)         6       0 10 10 V - wire (PMR)         7       0 35 V 3-Wire (PMR)         8       Isolated/Configurable 4-wire (PMR) Note 5         8       Isolated/Configurable 4-wire (PMR) Note 4, 5         9       Configurable 3-wire (PMR) Note 2, 5         10       Varia S0 * C(14 to - 12* ff)         11       -30 to 4.30 * C(14 to - 12* ff)         12       -40 to 430 * C(14 to - 12* ff)         13       -40 to 430 * C(14 to - 12* ff)         14       -40 to 12* C(140 to -12* ff)         15       -40 to 12* C(140 to -12* ff)         14       Induction         15       -40 to 12* C(140 to -12* ff)         16       Nortice         17       -40 to 12* C(140 to -12* ff)         16       Nortice         16       Nortice         17       -40 to 12* C(140 to -12* ff)         16       Reconstruce									
M       Topin R05/ReF         Electronics Option       0         0       mV Lincerster Avire (PDCR)         2       4 to 20 mA 2-wire (PTR)         3       0 to 5 V 4-wire (PTR)         4       0 to 5 V 4-wire (PTR)         5       0 to 5 V 4-wire (PTR)         6       0 to 5 V 4-wire (PTR)         7       0 to 5 V 4-wire (PTR)         6       0 to 5 V 4-wire (PTR)         7       0 to 5 V 4-wire (PTR)         8       Isolare 4-wire (PMR) Note 4, 5         Compensated Temperature Range       TA         10       -00 to 450° C140 to 17.6° FT         10       -00 to 430° C1-40 to 17.6° FT         11       -00 to 430° C1-40 to 17.6° FT         12       -00 to 430° C1-40 to 17.6° FT         13       -00 to 430° C1-40 to 17.6° FT         14       IECEVATEX Intrinsculy Sofe of Group IC         14       ECEVATEX Intrinsculy Sofe of Group IC         14       ECEVATEX Intrinsculy Sofe of Group IC         14       ECEVATEX Intrinsculy Sofe									
Electronics Option         0           mV Possive 4-wire (PDCR)           a to 2 m/a 2-wire (PDCR)           3         0 to 5 V 4-wire (PDR)           4         10 to 5 V 4-wire (PDR)           5         10 to 5 V 4-wire (PDR)           6         10 to 5 V 4-wire (PDR)           7         10 to 5 V 4-wire (PDR)           8         Isolated/Configurable 4-wire (PMR) Note 5           8         Isolated/Configurable 4-wire (PMR) Note 4, 5           9         Comparable View (PMR) Note 4, 5           10									
0         mV Dissue 4-wire (PCR)           1         mV Licenside 4-wire (PCR)           2         4 to 20 mA 2-wire (PMP)           3         0 to 5 V -wire (PMP)           4         0 to 5 V -wire (PMP)           5         1 to 8 V -wire (PMP)           6         0 to 5 V -wire (PMP)           7         0 to 5 V -wire (PMP)           8         to attract (PMP) Note 5           8         to attract (PMP) Note 5           9         configurable 4-wire (PMP) Note 4, 5           9         configurable 5-wire (PMP) Note 4, 5           9         configurable 5-wire (PMP) Note 2, 5           10         -4.00 to 4.00 C (+4.01 - 4.25 PT)           11         10 to 4.50 C (-1.00 to -1.25 PT)           11         10 to 4.50 C (-1.00 to -1.25 PT)           11         10 to 4.50 C (-1.00 to -1.25 PT)           11         10 to 4.50 C (-1.00 to -1.25 PT)           11         10 to 4.50 C (-1.00 to -1.25 PT)           11         11 (CEVATEX Intrinsciculy Sofe for Group IIC)           12         12 (EEVATEX Intrinsciculy Sofe for Group IIC)           14         12 (EEVATEX Intrinsciculy Sofe for Group IIC)           14         12 (EEVATEX Intrinsciculy Sofe for Group IIC)           14         12 (EEVATEX									
2         4 to 20 mA 2-wire (PMP)           3         0 to 5 V 3-wire (PMP)           4         0 to 5 V 3-wire (PMP)           5         1 to 6 V 3-wire (PMP)           6         0 to 1 20 V 4-wire (PMP) Note 5           8         Isoloted/Configurable 4-wire (PMP) Note 4, 5           Configurable 3-wire (PMP) Note 122 PM           16         0 to 3 C(1 4 to 1 22 PM)           17         - 20 to -30 C(1 4 to 1 27 PM)           16         - 20 to -40 C(1 4 to 1 27 PM)           17         - 40 to -32 C(1 4 to 1 27 PM)           18         - 20 to -40 C(1 4 to 1 27 PM)           17         - 40 to -32 C(1 4 to 1 27 PM)           18         - 20 to -40 C(1 4 to 1 27 PM)           17         - 40 to -32 C(1 4 to 1 27 PM)           18         - 20 to -40 C(1 4 to 1 27 PM)           19         - 40 to -32 C(1 4 to 1 27 PM)           10         - 40 to -32 C(1 4 to 1 27 PM)           10         - 10 to -30 C(1 PM to 2, 5 PM)           10         - 40 to -30 C(1 PM to 2, 5 PM)           10         - 10 to -30 C(1 PM to 2, 5 PM)           10         - 40 to -30 to			0 mV Passive 4-wire (PDCR) Note 1						
3         0 to 5 V -wire (PMP)           4         10 to 5 V -wire (PMP)           5         1 to 5 V - wire (PMP)           6         0 to 10 V - wire (PMP) Note 4, 5           7         0 to 5 to 4.5 V Ratiometric 3-wire (PMP) Note 4, 5           7         0 to 5 to 4.5 V Ratiometric 3-wire (PMP) Note 4, 5           7         0 to 40 V - wire (PMP) Note 4, 5           7         0 to 40 V - 10 To 717           7         1 to 10 to 40 V - 10 To 717           7         1 to 10 to 40 V - 10 To 717           7         - 4 to 10 to 42 V - 10 To 717           7         - 4 to 10 to 42 V - 10 To 717           7         - 4 to 10 to 42 V - 10 To 717           10         - 4 to 10 to 42 V - 10 To 717           11         1 to 4 to 4 to 71 V - 10 To 717           12         - 4 to 10 to 42 V - 4 to 4 to 71 V - 10 To 717           13         - 4 to 10 to 42 V - 4 to 4 to 71 V - 10 V -									
4         0.05 VJ 3-wire (PMP)           5         11 to 6V 3-wire (PMP)           6         0.15 UV 4-wire (PMP) Note 5           8         Isolated/Configurable 4-wire (PMP) Note 4, 5           9         Configurable 4-wire (PMP) Note 4, 5           10 to 43 3-01 (4 to 4, 5)         Compensated Temperature Range           11 to 10 to 43 00 (1 4 to 12)? F1         T           12 to 43 00 (-14 to 12)? F1         T           13 to 43 00 (-14 to 12)? F1         T           14 to 10 to 43 00 (-14 to 17)? F1         T           15 to 43 00 (-14 to 17)? F1         T           15 to 43 00 (-14 to 17)? F1         T           14 to 10 to 33 0 (-14 to 17)? F1         T           15 to 10 to 30 (-14 to 17)? F1         T           16 to 13 0 (-12)? F1         T           16 to 13 0 (-12)? F1         T           16 to 13 0 (-12)? F1         Tot -40 to 13 F1           16 to 13 (-12)? F1         Tot -40 to 13 F1           16 to 14 (-12)? F1         Tot -40 to 13 F1           16 to 10 (-12)? F1         Tot -40 to 13 F1           17 to 10 (-12)? F1         Tot -40 to 13 F1           18 to 10 (-12)? F1         Tot -40 to 13 F1           19 to 11 (-11) F1         Tot -40 to 13 F1           10 to 12 (-11) F1									
6       010 10 V 4-wire (PMP) Note 5         8       isolata/Configurable 4-wire (PMP) Note 4, 5         9       Configurable 4-wire (PMP) Note 4, 5         9       Configurable 4-wire (PMP) Note 4, 5         100 r50 10 4-wire (PMP) Note 4, 5       Compensated Temperature Range         11       100 r50 75 01 40 r40 r25 7 F1         12       100 r30 r50 r14 r40 r32 r57 r1         13       -20 ta 90 7C r40 to -257 r91 Note 2, 5         14       industrial         16       20 ta 90 7C r40 to -257 r91 Note 2, 5         15       Confictroion         14       industrial         18       Colification         19       Colification         10       -40 to +125 °C r40 to +257 r91 Note 2, 5         11       Industrial         11       Industrial         11       IECEWATEX Intrinsically Sofe for Group IIC         11       IECEWATEX Intrinsically Sofe for Group IIC         12       Hacardous Area Approval Note 6         140       None         11       IECEWATEX Intrinsically Sofe for Group IIC         12       Hacardous Area Approval Note 6         140       Hacardous Area Approval Note 6         141       IECEWATEX Intrinsically Sofe for Group IIC <th></th> <th></th> <th></th>									
7       0.5 to 4.5 V. Rotionettic 3-wire (PMP) Note 4, 5         9       Configurable 3-wire (PMP) Note 4, 5         9       Configurable 3-wire (PMP) Note 4, 5         9       Compensated Temperature Ronge         17       -1010+50°C (14 to -122°F)         18       -2010+80°C (14 to -176°F)         10       -4010+80°C (14 to -176°F)         10       -4010+80°C (14 to -176°F)         10       -4010+82°C (10 to +25°°F)         11       -6010+25°C (14 to +176°F)         11       -6010+25°C (14 to +176°F)         12       -6010+25°C (14 to +176°F)         13       -7010+80°C (14 to +27°F)         14       -6000+100+25°C (16 to +27°F)         15       -60000+100+25°C (16 to +27°F)         16       -700000         14       16200+100+100         16       -700000         17       -70000000         16       -7000000000000000000000000000000000000									
8       Isolated/Configurable 4-wire (PMF) Note 4, 5         9       Compensated Tempercture Ronge         17       -100 rs/90 C144 to +122 F1         18       -200 rs/90 C144 to +127 F1         10       -400 to +125 °C1/40 to +257 °F1 Note 2, 5         Campensated Tempercture Ronge									
Compensated Temperature Ronge         TA       -:1010 +:50°: C140 to 1-125° F1         TB       -:2010 +:80°: C140 to 1+257° F1         TD       -:4010 +:30°: C140 to 1+257° F1         Note 200°: C140 to 1+257° F1       Note 2,5         Accuracy       A1         Industrial       A2         A2       Improved         A3       Permum         Calibration       CA         CC       Full Thermal         H1       IECEVATEX Intrinscally Safe ini Group IIC         H2       IECEVATEX Intrinscally Safe ini Group IIC         H4       IECEVATEX Intrinscally Safe ini Group IIC/ARCD         H5       IECEVATEX Intrinscally Safe ini Group IIC/A									
TA       -10 to 50°C (14 to +122 °F)         TB       -20 to +30°C (+40 to +176 °F)         TD       -40 to +30°C (+40 to +176 °F)         TD       -40 to 125°C (+40 to +275 °F) Note 2, 5         Accuracy       A1         A1       Industrial         A2       improved         A3       Premium         Calibration       CA         CB       Room Temperature         CC       Fall Thermal         Hackardous Area Approval Note 5         H0       None         H2       HCEEVAREN Intrinscally Safe 10' Group IIC         H4       HEEEVAREN Intrinscally Safe 10' Group IIC         H4       HEEEVAREN Intrinscally Safe 10' Group IIC/ABCD         H4       HEEEVAREN Intrinscally Safe 10' Group IIC/ABCD         H4       HEEEVAREN Intrinscally Safe 10' Group IIC/ABCD (H1 + H2)         H500       H500 Intrinscally Safe 10' Group IIC/ABCD (H1 + H2)         H501       FPE       G1/4 Mole F0' Internol Cone         PC       G1/4 Mole F0' Internol Cone       PC         PC       G			J						
1       1       -20 to -80° C - 40 to -176 *F         1       -40 to +257 C (-40 to +257 *F) Note 2, 5         Accuracy       A1       industrial         A2       industrial         A3       Premium         Calibration       Calibration         CA       Zerr/Span Data         CA       Zerr/Span Data         CA       Serr/Span Data         CA       Zerr/Span Data         Haradrous Area Approval Note 6         HO       None         HO       None         H1       IECEVATEX Intrinscally Safe 'a' Group IIC         H2       IECEVATEX Intrinscally Safe 'a' Groups IIC/ABCD         H4       IECEVATEX Intrinscally Safe 'a' Groups IIC/ABCD<									
TC      40 to +125 °F)         Not -40 to +125 °C +40 to +257 °F) Note 2, 5         Accurrocy         A1       industrial         A2       improved         A3       Fremiun         Calibration       CA         CA       Zero/Sgan Data         CB       Zero/Sgan Data         CC       Full Thermal         H2       HECEVAILS Intrinsically Safe in' Group IIC         H2       HECEVAILS Intrinsically Safe in' Group IIC         H2       HECEVAILS Intrinsically Safe in' Group IIC/ABCD         H4       HECEVAILS Intrinsically Safe in' Group IIC/ABCD         H4       HECEVAILS Intrinsically Safe in' Group IIC/ABCD (H1 + H2)         H5       H2CHAINEX/MIC LS USI Intrinsically Safe in' Group IIC/ABCD (H1 + H6)         Pressure Connector       PA         G1/4 Periode Note 3       PB         PB       G1/4 Noie Flot         Pressure Connector       PC         PC       G1/4 Noie Flot         Pressure Connector       PE         PG       G1/4 Noie Flot         PR       G1/4 Periole Note 3         PF       1/4 NPT Mole         PG       G1/4 Noie Flot         PH       M20x1.5         PG <th></th> <th></th> <th></th>									
Accuracy A1 mdustrial A2 improved A3 Premium Calibration CA ZeroSpan Data CA Z									
A1       industrial         A2       improved         A3       Premium         Collbortion       CA         CA       Zero/Span Data         CB       Roam Emperature         CC       Full Thermal         Hazardous Area Approval Note 6         HO       None         H1       IECE/ATEX Intrinsically Safe 1a' Group IIC         H2       IECE/ATEX Intrinsically Safe 1a' Group IIC         H2       IECE/ATEX Intrinsically Safe 1a' Group IIC         H2       IECE/ATEX Intrinsically Safe 1a' Group IIC/AECD         H4       FEC/ATEX Intrinsically Safe 1a' Group IIC/AECD         H4       FESUE Concentric         PA       G1/4 Female Note 3         PC       G1/4 Mole Flat									
A2       Improved         A3       Premium         Calibration       CA         ZA       Room Temperature         CC       Room Temperature         CC       Full Thermol         Hazardous Area Approval Note 6         H0       None         H1       IECCEV/ATEX Intrinsically Safe for Group IIC         H2       IECCEV/ATEX Intrinsically Safe for Groups IIC/ABCD         H4       IECCEV/ATEX Intrinsically Safe for Groups IIC/ABCD (H1 + H2)         H5       IECE/ATEX Intrinsically Safe for Groups IIC/ABCD (H1 + H6)         Pressure Connector       PB         G1/4 Male Fait       PG         PB       G1/4 Male Fait         PC       G1/4 Male Fait         PC <th></th> <th></th> <th></th>									
A3 Premium Collibration CA Zaro/Span Data CB Room Temperature CC Full Thermal Hazardous Area Approval Note 6 H0 None H1 IECE/ATEX Intrinsically Safe 1ar Group IIC H2 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD H4 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD H4 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD H4 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD (H1 + H2) H5 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD (H1 + H2) H5 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD (H1 + H2) H5 IECE/ATEX Intrinsically Safe 1ar Group IIC/ABCD (H1 + H6) Pressure Connector PA G1/4 Female Note 3 PF 1/4 NPT Male PG G1/4 Male 60 <sup>11</sup> Internal Cone PE 1/4 NPT Male PG 1/8 NPT Male PG 1/8 NPT Male PG 1/8 NPT Male PG 1/4 NPT Male Va adaptor Note 3 PG 1/4 Suvagelok Bulknead PT 1/4 Sear Note 3 PG 1/4 Suvagelok Bulknead PG 1/4 NPT Male Find Long PU 7/16-20 UNF Long 37* finer tip PV 7/16-20 UNF Long 37* finer tip PV 7/16-20 UNF Long 37* finer tip PV 7/16-20 UNF Long 77* f									
CA Zero/Spon Data CB Room Temperature CC Full Thermal Hazardous Area Approval Note 6 HO None H1 IECE/ATEX Intrinsically Safe Ta' Group IIC H2 IECE/ATEX Intrinsically Safe Ta' Group IIC (ARCD H4 IECE/ATEX Intrinsically Safe Ta' Group IIC (H1 + H2) H5 IECE/ATEX/FWI (C & US) Intrinsically Safe Ta' Groups IIC/ARCD [H1 + H2] H6 FM (E & US) Intrinsically Safe Ta' Groups IIC/ARCD [H1 + H2] H7 Perssure Concector PA G1/4 Female Note 3 P8 G1/4 Male Flat PC G1/4 Male Flat PC G1/4 Male Flat PG J2M Male 60' Internal Cone PD G1/2 Male 60' Internal Cone PD G1/2 Male 60' Internal Cone PD G1/2 Male 60' Internal Cone PF 1/A NPT Male PH M20A15 PH M12A1 Staff Internal Cone PK M12A1 Staff Internal Cone PK M12A1 Staff Internal Cone PR G1/2 Male 60' Internal Cone PR M12A1 Internal Cone PR M12A1 Internal Cone PR M12A1 Internal Cone PR M12A Internal Cone			A3 Premium						
CB Room Temperature CC Full Thermal Hazardous Area Approval Note 6 H0 None H1 liCCEV/ATEX Intrinsically Safe Tid Group IIC H2 liCCEV/ATEX Intrinsically Safe Tid Group IIC (H1 + H2) H3 liCCEV/ATEX Intrinsically Safe Tid Group IIC (H1 + H2) H4 liCCEV/ATEX Intrinsically Safe Tid Group IIC (H1 + H2) H5 liCCEV/ATEX Intrinsically Safe Tid Group IIC (ABCD (H1 + H6) PA G1/4 Fendle Note 3 PB G1/4 Male Flat PC G1/4 Male Flat PC G1/4 Male Flat PC G1/4 Male G0* Internal Cone PE 1/4 NPT Male PH M22A Internal Cone PK M12A 115 G0* Internal Cone PK M12A 110 Final B0* Internal Cone PK M12A 10 A18 Pf Internal Cone RE Quick Release Mount RF VCR Male									
CC       Full Thermail         Hazarobus Area Approval Note 6         Hazarobus Area Approval Note 6         H1       TECEX/ATEX Intrinsically Sofe 'a' Group IIC         H2       TECEX/ATEX Intrinsically Sofe 'a' Group IIC/ABCD         H4       TECEX/ATEX Intrinsically Sofe 'a' Group IIC/ABCD         H6       FM (C & US) Intrinsically Sofe 'a' Group IIC/ABCD (H1 + H2)         H5       TECEX/ATEX/EMIC & US) Intrinsically Sofe 'a' Group SIIC/ABCD (H1 + H6)         Pressure Connector       PA         G1/4 Bende Note 3       PB         G1/4 Male Flat       PC         PC       G1/4 NPT Female Note 3         PF       1/4 NPT Male         PH       M20x115         PJ       M14x15 Off Internal Cone         PK       M12x1 Interal         PG									
HO None H1 IECEX/ATEX Intrinsically Safe 'io' Group IIC H2 IECEX/ATEX Intrinsically Safe 'io' Group IIC/ABCD H4 IECEX/ATEX Intrinsically Safe 'io' Group IIC/ABCD (H1 + H2) H5 IECEX/ATEX/EN/IC SUS Intrinsically Safe 'io' Groups IIC/ABCD (H1 + H6) Pressure Connector PA G1/4 Finale Flat PC G1/4 Male Flat PC G1/4 Male Flat PC G1/4 Male 60' Internal Cone PD G1/8 Male 60' Internal Cone PE 11/4 NPT Female Note 3 PF 1/4 NPT Male PG 1/8 NPT Male PG 01/2 Male Via Conne PL 7/16-20 UN/L Male Via Cone PL 7/16-20 UN/L Male Via Congelow PN G1/2 Male Via Connect 3 PS 1/4 Swagelok Bulknead PT G1/4 Male Flat Lang PU 7/16-20 UN/F Long 37' flore tip PU 7/16-20 UN/F Long 37' flore tip PV 7/16-20 UN/F Long 37' flore tip PV 7/16-20 UN/F Female Male Short Flat PX 30-24 UN/F Female PW Depth Cone (G1/4 Female Cone PK M12x 1.1 NErmal Cone PL 7/16-20 UN/F Long 37' flore tip PV 7/16-20 UN/F Female PW Depth Cone (G1/4 Female Cone PK 7/16-20 UN/F Female PW Depth Cone (G1/4 Female Cone PK 7/16-20 UN/F Female PW M10 x 1.80' Internal Cone RA VCR Female RB G1/4 Male Flat Lang PU 7/16-20 UN/F Female PW Depth Cone (G1/4 Female Cone RA VCR Female RB G1/4 Male Flat with Snubber RC G1/4 Male Flat with Snubber RC G1/4 Male Flat Vith Snubber RC G1/4 Male Flat With Snubber RE VCR Male									
H1       IECEX/ATEX Intrinsically Sofe 'ior Group IIC         H2       IECEX/ATEX Intrinsically Sofe 'ior Group IIC/ABCD         H4       IECEX/ATEX Intrinsically Sofe 'ior Group IIC/ABCD         H4       IECEX/ATEX Intrinsically Sofe 'ior Groups IIC/ABCD (H1 + H2)         H5       IECEX/ATEX/IFINC is US Intrinsically Sofe 'ior Groups IIC/ABCD (H1 + H6)         Pressure Connector       PA         G1/4 Female Note 3       PB         PC       G1/4 Male Flat         PC       G1/4 Male 60' Internal Cone         PD       G1/8 NPT Male         PG       1/4 NPT Female Note 3         PF       1/4 NPT Female Note 3         PF       1/4 NPT Female Note 3         PF       1/4 NPT Male         PH       M20x15         PJ       M14x15 60' Internal Cone         PL       7/16-20 UNF Male 74' External Cone         PL       7/16-20 UNF Male Value Adaptor Note 3         PQ       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37' flare tip         PV       7/16-20 UNF Long									
H2       IECEX/ATEX Intrinsically Sofe 'ior Group IIC/ABCD         H6       FM IC & US  Intrinsically Sofe 'ior Group IIC/ABCD (H1 + H2)         H5       IECEX/ATEX Intrinsically Sofe 'ior Group SIIC/ABCD (H1 + H6)         PR       G1/4 Female Note 3         PB       G1/4 Mole Foot         PC       G1/4 Mole Foot         PD       G1/4 Mole Foot         PD       G1/4 Mole Foot         PF       1/4 NPT Female Note 3         PF       1/4 NPT Mole         PG       1/8 NPT Mole         PH       M2xx15         PJ       M14x15 60° Internal Cone         PK       M12x11ternal Cone         PH       M2xx15         PJ       M14x15 60° Internal Cone         PH       M2xx15         PG       1/8 NPT Mole         PH       M2x15 60° Internal Cone         PK       M12x11ternal Cone         PL       7/16-20 UNJF Mole 74° External Cone         PN       G1/2 Mole via adaptor Note 3         PQ       G1/4 Mole Foot Note 3         PQ       G1/4 Mole via adaptor Note 3         PQ       G1/4 Mole via adaptor Note 3         PQ       G1/4 Mole via adaptor Note 3         PQ       G1/4 Mole via Change Via Mat									
H6       FM (C & US) Intrinsically Safe 'ia' Group IIC/ABCD         HA       IECE/VATEX/FM (C & US) Intrinsically Safe 'ia' Groups IIC/ABCD [H1 + H6]         H5       IECE/VATEX/FM (C & US) Intrinsically Safe 'ia' Groups IIC/ABCD [H1 + H6]         Pressure Connector       PA         G1/4 Female Note 3       PB         PC       G1/4 Male Flat         PC       G1/4 Male 60' Internal Cone         PD       G1/8 Male 60' Internal Cone         PE       1/4 NPT Female Note 3         PF       1/4 NPT Male         PJ       M14x15 60' Internal Cone         PH       M20x15         PJ       M14x15 60' Internal Cone         PK       M12x1 Internal Cone         PL       7/16-20 UNF Mole 7* External Cone         PN       G1/2 Male via adaptor Note 3         PQ       G1/4 Vale via adaptor Note 3         PQ       G1/4 Male Flat Lang         PU       7/16-20 UNF Mela 7* External Cone         PN       G1/2 Male via adaptor Note 3         PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flat Lang         PU       7/16-20 UNF Leng 37* flare tip         PV       7/16-20 UNF Leng 20 UNF Leng 20 uns Flashort Flat         PY       7/16-20 UNF Leng 20 uns Flashort									
HS IECEXATEXIFMIC & US) Intrinsically Safe 'ia' Groups IIC/ABCD [H1 + H6] Pressure Connector PA G1/4 Female Note 3 PB G1/4 Male Flat PC G1/4 Male 60° Internal Cone PD G1/8 Male 60° Internal Cone PE 1/4 NPT Female Note 3 PF 1/4 NPT Male PG 1/8 NPT Male PH M20x1.5 PJ M14x1.5 60° Internal Cone PK M12x1 Internal Cone PK 7/16-20 UNF Hale Short Flat PY 3/8-24 UNJF PZ M10x1 80° Internal Cone RA VCR Fermale RB G1/4 Male Flat with Cross Bore Protection RD M12x1.0 'ra' External Cone RE Quick Release Mount RF VCR Male			H6 FM (C & US) Intrinsically Safe 'ia' Group IIC/ABCD						
Pressure Connector         PA       G1/4 Female Note 3         PB       G1/4 Male Flat         PC       G1/4 Male 60° Internal Cone         PD       T/4 NPT Female Note 3         PF       1/4 NPT Female Note 3         PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x15         PJ       M14x15 60° Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PL       7/16-20 UNJF Male 74° External Cone         PN       G1/2 Male via Adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male Via adaptor Note 3         PS       1/4 Sweglock Bulknead         PT       G1/4 Male Flat Long         PU       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       <									
PA       G1/4 Female Note 3         PB       G1/4 Male Flat         PC       G1/4 Male 60° Internal Cone         PD       G1/8 Male 60° Internal Note 3         PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x15         PG       1/8 NPT Male         PH       M20x15         PG       1/8 NPT Male         PH       M20x15         PJ       M41x15 60° Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PL       7/16-20 UNJF Male 74° External Cone         PN       G1/2 Male via Adaptor Note 3         PG       1/4 NPT Male via adaptor Note 3         PG       1/2 NPT Male via adaptor Note 3         PS       1/4 Awagelok Bulkhead         PT       G1/4 Male Flat Long         PY       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RV CRFemale       RB         G1/4 Male Flat with Cross Bore Protection         RD       G1/4 Male Flat with Snubber         RE       Quick Release Mount									
PC       G1/4 Male 60° Internal Cone         PD       G1/8 Male 60° Internal Cone         PE       1/4 NPT Fendle Note 3         PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x1.5         PJ       M14x1.5 60° Internal Cone         PK       1/4 NPT Male         PH       M20x1.5         PJ       M14x1.5 60° Internal Cone         PK       M12x1 Internal Cone         PK       M12 Male Fait wind wataptor Note 3         PQ       G1/2 Male Via Adaptor Note 3         PQ       G1/4 Vale Cone Cone         PR       1/2 NPT Male via adaptor Note 3         PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flot Long         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PY       3/8-24 UNJF         PZ       M12 N10 Are Flot with Snu									
PD       G1/8 Male 60° Internal Cone         PE       1/4 NPT Female Note 3         PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x1.5         PJ       M14x1.5 60° Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PL       7/16-20 UNJF Male 74° External Cone         PN       G1/2 Male via adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PQ       G1/4 Male Flat Long         PU       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 180° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cones Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PE       1/4 NPT Female Note 3         PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x1.5         PJ       M14x1.5 60° Internal Cone         PK       M12x1 Internal Cone         PL       7/16-20 UNJF Male 74° External Cone         PN       G1/2 Male via Adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PQ       G1/4 Male Flat Long         PU       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Female         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Releas									
PF       1/4 NPT Male         PG       1/8 NPT Male         PH       M20x15         PJ       M14x1.5 60° Internal Cone         PK       M12x1 Internal Cone         PK       M12x1 Internal Cone         PN       G1/2 Male via Adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cose Bore Protection         RD       M12 x 10 74° External Cone         RE       Quick Release Mount         RF       VCR Male </th <th></th> <th></th> <th></th>									
PHM20x1.5PJM14x1.5 60° Internal ConePKM12x1 Internal ConePL7/16-20 UNJF Male 74° External ConePNG1/2 Male via Adaptor Note 3PQG1/4 Quick ConnectPR1/2 NPT Male via adaptor Note 3PS1/4 Swaglok BulkheadPTG1/4 Male Flat LongPU7/16-20 UNF Long 37° flare tipPV7/16-20 UNF FemalePWDepth Cone (G1/4 Female open face)PX7/16-20 UNF Male Short FlatPY3/8-24 UNJFPZM10 x 1 80° Internal ConeRAVCR FemaleRBG1/4 Male Flat with SnubberRCG1/4 Male Flat with Cross Bore ProtectionRDM12 x 1.0 74° External ConeREQuick Release MountRFVCR Male									
PJM14x1.5 60° Internal ConePKM12x1 Internal ConePL7/16-20 UNJF Male 74° External ConePNG1/2 Male via Adaptor Note 3PQG1/4 Quick ConnectPR1/2 NPT Male via adaptor Note 3PS1/4 Swagelok BulkheadPTG1/4 Male Flat LongPU7/16-20 UNF FemalePWDepth Cone (G1/4 Female open face)PX7/16-20 UNF FemalePW3/8-24 UNJFPZM10 x 1 80° Internal ConeRAVCR FemaleRBG1/4 Male Flat with Cross Bore ProtectionRDM12 x 1.0 74° External ConeREQuick Release MountRFVCR Male									
PKM12x1 Internal ConePL7/16-20 UNJF Male 74° External ConePNG1/2 Male via Adaptor Note 3PQG1/4 Quick ConnectPR1/2 NPT Male via adaptor Note 3PS1/4 Swagelok BulkheadPTG1/4 Male Flat LongPU7/16-20 UNF FemalePWDepth Cone (G1/4 Female open face)PX7/16-20 UNF FemalePWDepth Cone (G1/4 Female open face)PY3/8-24 UNJFPZM10 × 180° Internal ConeRAVCR FemaleRBG1/4 Male Flat with SnubberRCG1/4 Male Flat with Cross Bore ProtectionRDM12 × 1.0 74° External ConeREQuick Release MountRFVCR Male									
PL7/16-20 UNJF Male 74° External ConePNG1/2 Male via Adaptor Note 3PQG1/4 Quick ConnectPR1/2 NPT Male via adaptor Note 3PS1/4 Swagelok BulkheadPTG1/4 Male Flat LongPU7/16-20 UNF Long 37° flare tipPV7/16-20 UNF Long 37° flare tipPV7/16-20 UNF Male Short FlatPWDepth Cone (G1/4 Female open face)PX7/16-20 UNF Male Short FlatPY3/8-24 UNJFPZM10 x 1 80° Internal ConeRAVCR FemaleREG1/4 Male Flat with SnubberRCG1/4 Male Flat with Cross Bore ProtectionRDM12 x 10.74° External ConeREQuick Release MountRFVCR Male									
PQ       G1/4 Quick Connect         PR       1/2 NPT Male via adaptor Note 3         PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PR       1/2 NPT Male via adaptor Note 3         PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PS       1/4 Swagelok Bulkhead         PT       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PT       G1/4 Male Flat Long         PU       7/16-20 UNF Long 37° flare tip         PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PV       7/16-20 UNF Female         PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1.80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PW       Depth Cone (G1/4 Female open face)         PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 × 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 × 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PX       7/16-20 UNF Male Short Flat         PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
PY       3/8-24 UNJF         PZ       M10 x 1 80° Internal Cone         RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
RA       VCR Female         RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
RB       G1/4 Male Flat with Snubber         RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
RC       G1/4 Male Flat with Cross Bore Protection         RD       M12 x 1.0 74° External Cone         RE       Quick Release Mount         RF       VCR Male									
RD M12 x 1.0 74° External Cone RE Quick Release Mount RF VCR Male									
RF VCR Male									
$\downarrow \downarrow \downarrow$									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			RF VCR Male						
PTX 5 0 7 2 - TA - A2 - CB - H0 - PA Typical Model Number	¥	$\downarrow \downarrow \downarrow$							
	, уту	5 0 7	2 - TA - A2 - CR - HO - PA Tunical Model Number						

#### Ordering Notes

Note 1 Premium Accuracy is not available on this version

Note 2 Please ensure that the electrical connector selected is option 0, 2, 6, A, E, F or G.

Note 3 Select one of these pressure connectors for pressure ranges over 70 bar

Note 4 Max operating temperature is 80°C (176°F) Note 5 Hazardous area certifications not available

Note 6 Hazardous area certifications are restricted by electrical connector options in line with the following table:

					(	Connec	tor				
Approval	0	1	2	3	4	6/E	7	A/F	С	D	G
H1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
H2	Y	-	Y	Y	Y	Y	-	-	Y	-	Y
H6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
HA	Y	-	Y	Y	Y	Y	-	-	Y	-	Y
HS	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Note 7 Has component certification and must be incorporated into certified apparatus with an IP rated enclosure appropriate to the certification type supplied.

#### 2) State pressure range and units: e.g. 0 to 10 bar, -5 to + 5 psi

Unit options are:

Symbol           bar           mbar           psi           Pa           hPa           kPa           mmH20           cmH20           inH20           inH20           inH20           inH20           inH20           mmH20           inH20           inH3           kgf/cm²	Description bar millibar pounds/sq. inch Pascal hectoPascal kiloPascal MegaPascal mm water cm water attres water inches water feet water mm mercury inches mercury kg force/sq. cm
kgf/cm² atm Torr	kg force/sq. cm atmosphere torr

#### 3) State Pressure reference: e.g. gauge

Reference options are: gauge absolute barometric sealed gauge wet/dry differential wet/wet differential

**4) State cable lengths and units:** Integer values only, e.g. 1m cable, 8 ft, minimum length 1 m (3 ft) cable (only required on certain electrical connectors), Maximum cable length 190 m (570 ft)

5) Output options 8 and 9: State voltage output at minimum and maximum pressure: e.g. output -1 to 9 V

#### Typical order examples:

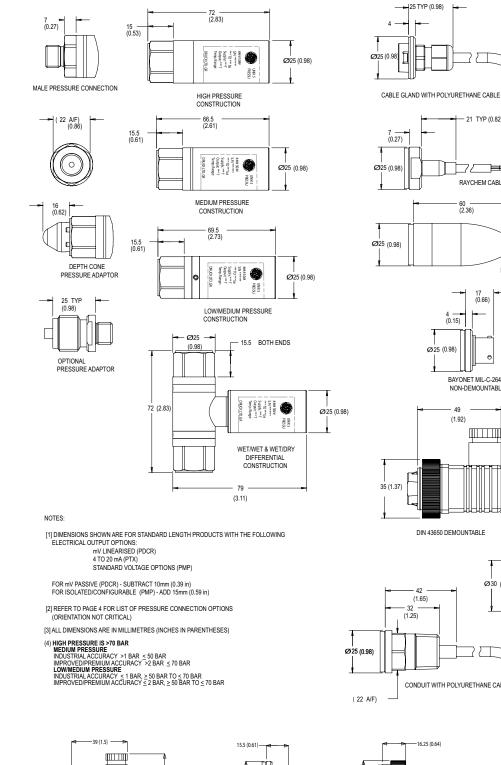
PTX5012-TB-A2-CA-H0-PA, 0 to 10 bar, gauge, 3 m cable PMP5028-TD-A3-CC-H0-PE, -15 to 75 psi, gauge, 15ft cable, output voltage -1 to 5 volts PDCR5071-TB-A1-CB-H0-PB, 0 to 100 bar, sealed gauge

#### Accessories

Mating connector for MIL-C-26482 (Electrical connector options 6, A, E and F) under part number S\_163-009,

Note: Not considered suitable for use in hazardous areas due to light metals content and low ingress protection (IP) rating.

#### **Mechanical Drawings**



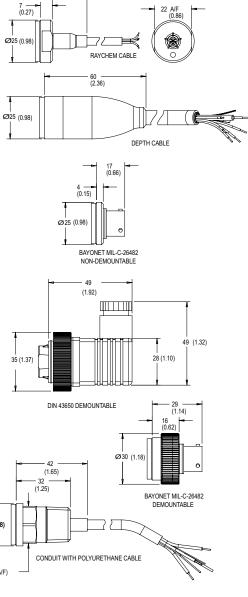
33.45 (1.3)

4 15.5 (0.6)

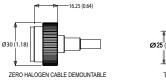
MICRO DIN (9.4 mm)

Ø25 (0.98

M12x1 4-PIN



- 21 TYP (0.82)







Ø25 (0.98

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