Measurement & Control

UNIK 5000

Pressure Sensing Platform

The new UNIK 5000 is a high performance configurable solution to pressure measurement. The use of micromachined 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:



The combination of a high technology sensor, together with advanced signal conditioning and packaging techniques, provides an ideal long term solution for reliable, accurate and economical measurements

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 (10000 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 70 mbar to 70 bar (1 to 1000 psi) (values in psi are approximate)

Sealed Gauge Ranges

Any zero based range 10 to 700 bar (145 to 10000 psi)

Absolute Ranges

Any zero based range 100 mbar to 700 bar (1.5 to 10000 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. For non zero based gauge ranges, please contact GE Measurement & Control 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 × 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 × 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	Basic Configurable (3-wire)	See below~	See below	<3
6	0 to 10 V 4-wire	12 to 16**	0 to 10 V	<3
7	0.5 V to 4.5 V Ratiometric	5.0 ± 0.5	0.5 to 4.5 V	<3
8	Configurable (4-wire)	7 to 36	See below	See below
9	Configurable (3-wire)	7 to 36	See below	See below

[^] with a 10 V 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)

- **32 V in non-hazardous area operation
- \sim Supply voltage is between [Maximum Output + 1 V] (7 V minimum) to 16 V (32 V in non-hazardous area operation)

Basic Configurable (Option 5), Configurable 4-Wire (Option 8), Configurable 3-Wire (Option 9)

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

Output specification	Basic Configurable (Option 5)	Configurable (Options 8, 9)
Minimum span:	4 V	2 V
Maximum span:	10 V	20 V
Maximum output limit:	11 V	±10 V
Maximum zero offset:	Span / 2	±Span
Current consumption:	< 3 mA	< 20 mA @ 7 Vdc decreasing to < 5 mA @ 32 Vdc
Reverse output response:	No	Yes
Maximum operating temperature:	+125°C	+80°C

Output voltage range can be specified to a resolution of 0.1 $\rm V.$

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.

Option 5: Not true zero, the output will saturate at < 50 mV.

Options 8, 9: On startup <100 mA drawn for 10 ms typically.

Options 8, 9: Shunt calibration: not available with reverse output

Examples

Configuration	Allowed	Not Allowed
Basic Configurable (Option 5)	0 to 5 V	1 to 4 V (span too small)
	0.5 to 4.5 V	4 to 11 V (offset too big)
	1 to 6 V	
	1 to 11 V	
Configurable (Options 8, 9)	-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	

 $^{^{*}}$ 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

Power-Up Time

- mV, Voltage and current versions: 10 ms
- Configurable 3-wire and 4-wire versions: 500 ms

Insulation

- 500 Vdc: $100 \, \text{M}\Omega$
- 500 Vac: ≤ 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, Configurable 4-wire and Configurable 3-wire versions as standard. It is not available with DIN, M12 \times 1 or M20 \times 1.5 electrical connectors (options 7, D, G and R)

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.
- Configurable 4-wire and Configurable 3-wire versions: 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: $\pm 0.2\%$ FS BSL Improved: $\pm 0.1\%$ FS BSL Premium: $\pm 0.04\%$ FS BSL $\pm 0.04\%$ FS BSL

mV Passive

≤ 70 bar

Industrial/Improved: ±0.25% 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 ±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

Temperature Effects

Four compensated temperature ranges can be chosen. Industrial Accuracy performance:

-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: $<\pm0.03\%$ span/bar of line pressure Span shift: $<\pm0.03\%$ 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: fluids 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), PVDF (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 Male with Nipple
- G1/4 Ouick 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
- Ouick Release Male
- VCR Female*
- VCR Male*
- NW16 Flange
- R3/8 Male
- R1/4 Male

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

General Certifications

RoHS 2002/95/EC

CRN Certified 0F13650.517890YTN ADD1/ REV1, 0F13828.2 (sensor types K and O) and CSA 0F13650.56 ADD1 for pressure ranges up to and including 350 bar (5000 psi)

Electrical Connector

Various electrical connector options are available offering different features:

Code Number	Description	Max Operatir	Max Operating temp range				
Humber		°C	°F	rating	span Adjust		
0	No Connector	-55 to +125	-67 to +257	-	Υ		
1	Cable Gland	-40 to +80	-40 to +176	65	N		
2	Raychem Cable	-55 to +125	-67 to +257	65	N		
3	Polyurethane Depth	-40 to +80	-40 to +176	68	N		
4	Hytrel Depth	-40 to +80	-40 to +176	68	N		
6/E	Bayonet MIL-C-26482	-55 to +125	-67 to +257	67	N		
7	DIN 43650 Form A Demountable	-40 to +80	-40 to +176	65	Υ		
A/F	Bayonet MIL-C-26482 Demountable	-55 to +125	-67 to +257	65	Υ		
С	1/2 NPT Conduit	-40 to +80	-40 to +176	65	N		
D	Micro DIN (9.4 mm pitch)	-40 to +80	-40 to +176	65	N		
G	M12x1 4pin	-55 to +125	-67 to +257	67	N		
K	Zero Halogen Cable Demountable	-40 to +80	-40 to +176	65	Y		
М	Tajimi R03-R6F	-25 to +85	-13 to +185	65	N		
R	M20 x 1.5 Inline	-40 to +80	-40 to +176	65	Υ		

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).

Note: Electrical connector option R IP65 rating only with suitable conduit/cable fitting.

CE Conformity

Pressure Equipment Directive 97/23/EC: Sound Engineering Practice ATEX 94/9/EC (Optional)

EMC Directive 2004/108/EC

BS EN 61000-6-1: 2007 Susceptibility - Light Industrial Susceptibility - Heavy BS EN 61000-6-2: 2005 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

Hazardous Area Approvals (optional)

General applications • IECEX/ATEX Intrinsically Safe 'ia' Group IIC

Pressure Transducers

• INMETRO Intrinsically Safe 'ia' Group IIC

• NEPSI 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 O AEx/Ex ia Group IIC; Single Seal

Mining applications

• IECEx/ATEX Intrinsically Safe 'ia' Group I

• INMETRO Intrinsically Safe 'ia' Group I

For full certification details, refer to the type-examination certificates (or approval listings) and supplied hazardous area installation instructions.

Electrical Connector

Connector Type	Option			Electronics Option						
	code		4 to 20 mA	Voltage (3-wire) and Basic Configurable	Voltage (4-wire)	Configurable Voltage (4-Wire)	Configurable Voltage (3- Wire)	mV		
4olex	0	1 Red	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
		2 Yellow	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		3 Green	-	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		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 Suppl		
Not Raychem)	1,0, .,0	Yellow	- -	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		Blue	_	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		White	-ve Supply	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		Orange	-	-	=	Shunt Cal	Shunt Cal	Shunt Cal		
		Black	-	=	-	-	-	-		
		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 Outpu		
		Green	-	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		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 Suppl		
		В	-ve Supply	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		С	-	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		D	-	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		E	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		F	-	_		-	-	Shunt Cal		
DINI A	7									
DIN A Micro DIN	7 D	1	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
		2	-ve Supply	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		3	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		E	Case	Case	-ve Output	-ve Output	0V Common	-ve Outpu		
Bayonet Alternative Wiring Options	E, F	А	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
aternative wiring options		В	-	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		С	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		D	-ve Supply	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		E	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		F	-	-	-	Shunt Cal	Shunt Cal	_		
M12 X 1	G	1	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
i-Pin	O .		+vc зарріу							
		2	yo Cupelii	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		3	-ve Supply	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		4	Case	Case	-ve Output	-ve Output	0V Common	-ve Outpu		
'ero Halogen Cable	K	Pink	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
Demountable)		White	-	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		Green	-	-	-ve Output	-ve Output	0V Common	-ve Outpu		
		Blue	-ve Supply	0V Common	-ve Supply	-ve Supply	0V Common	-ve Supply		
		Grey	-	-	-	Shunt Cal	Shunt Cal	Shunt Cal		
		Brown	-	-	-	-	-	-		
		Yellow	-	-	-	-	-	-		
		Screen	-	=	-	-	_	_		
ajimi R03-R6F	М	A	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Supply	+ve Suppl		
aj 1100 1101		В	+ve supply	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 Outpu		
		Е	Case	+ve Output	+ve Output	+ve Output	+ve Output	+ve Outpu		
		F	=	-	Shunt cal	Shunt cal	Shunt Cal	Shunt cal		
M20 x 1.5 Female	R	+Ve	+ve Supply	-	-	-	-	-		
Demountable										

Ordering Information

See the online configuration tool at www.unik5000.com

TA

A2

(1) Select model number

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Main Product Variant
         Amplified Pressure Transducer
PDCR mV Pressure Transducer
         4-20 mA Pressure Transmitter
         Product Series
                   UNIK 5000
                   Diameter and Material
                             25mm Stainless Steel
                             Electrical Connector Note 6
                                      No Electrical Connector Note 7
                                      Cable Gland (Polyurethane Cable)
                                      Raychem Cable
                             3
                                      Polyurethane Cable (Depth)
                                      Hytrel Cable (Depth)
                             Δ
                                      MIL-C-26482 (6-pin Shell Size 10) (Mating connector not supplied)
                             6
                                      Demountable MIL-C-26482 (6-pin Shell Size 10) (Mating connector supplied)

Demountable MIL-C-26482 (6-pin Shell Size 10) (Mating connector not supplied)
                                      1/2" NPT Conduit (Polyurethane cable)
                                      Micro DIN (9.4 mm Pitch) (Mating connector supplied)
                                      MIL-C-26482 (6 pin Shell Size 10) Alternative Wiring (Mating connector not supplied)
Demountable MIL-C-26482 (6 pin Shell Size 10) Alternative Wiring (Mating connector not supplied)
M12 x 1 4-pin male (Mating connector not supplied)
                             Ε
                             G
                                      Zero Halogen Cable Demountable
                                      Tajimi R03-R6F
                                      M20 \times 1.5 Inline Female Conduit Demountable Note 8
                                      Electronics Option
                                                mV Passive 4-wire (PDCR) Note 1
                                                mV Linearised 4-wire (PDCR)
                                                4 to 20 mA 2-wire (PTX)
                                      3
                                                0 to 5 V 4-wire (PMP)
                                                0 to 5 V 3-wire (PMP)
                                      5
                                                Basic Configurable 3-wire (PMP)
                                               0 to 10 V 4-wire (PMP)
0.5 to 4.5 V Ratiometric 3-wire (PMP) Note 5
                                      6
                                                Configurable 4-wire (PMP) Note 4, 5
                                                Configurable 3-wire (PMP) Note 4, 5
                                                Compensated Temperature Range
                                                           -10 to +50 °C (14 to +122 °F)
                                                           -20 to +80 °C (-40 to +176 °F)
-40 to +80 °C (-40 to +176 °F)
                                                ТВ
                                                TC
                                                           -40 to +125 °C (-40 to +257 °F) Note 2, 5
                                                TD
                                                           Accuracy
                                                           Α1
                                                                     Industrial
                                                           A2
                                                                     Improved
                                                           Α3
                                                                     Premium
                                                                     Calibration
                                                                                Zero/Span Data
                                                                     СВ
                                                                                Room Temperature
                                                                                Full Thermal
                                                                     CC
                                                                                Hazardous Area Approval Note 6
                                                                                          IECEx/ATEX Intrinsically Safe 'ia' Group IIC
                                                                                Н1
                                                                                          IECEx/ATEX Intrinsically Safe 'ia' Group I
FM (C & US) Intrinsically Safe 'ia' Group IIC/ABCD
IECEx/ATEX Intrinsically Safe 'ia' Groups I/IIC [H1 + H2]
                                                                                H2
                                                                                Н6
                                                                                НΑ
                                                                                          IECEx/ATEX/FM (C & US) Intrinsically Safe 'ia' Groups IIC/ABCD [H1 + H6]
                                                                                HS
                                                                                          IECEx/ATEX/NEPSI Intrinsically Safe 'ia' Group IIC
                                                                                JA
                                                                                          INMETRO Intrinsically Safe 'ia' Group IIC
                                                                                JB
                                                                                          INMETRO Intrinsically Safe 'ia' Group I
                                                                                          INMETRO Intrinsically Safe 'ia' Group I/IIC [JA + JB]
                                                                                JF
                                                                                          Pressure Connector
                                                                                                    G1/4 Female Note 3
                                                                                                                                                  7/16-20 UNF Female
                                                                                          PΑ
                                                                                                    G1/4 Male Flat
                                                                                                                                                  Depth Cone (G1/4 Female Open Face)
                                                                                          РΒ
                                                                                                                                       PW
                                                                                          РС
                                                                                                     G1/4 Male 60° Internal Cone
                                                                                                                                                  7/16-20 UNF Male Short Flat
                                                                                          PD
                                                                                                    G1/8 Male 60° Internal Cone
                                                                                                                                                  3/8-24 UNJF
                                                                                                                                                  M10 x 1 80° Internal Cone
VCR Female Note 3, 9
                                                                                         PE
PF
                                                                                                    1/4 NPT Female Note 3
1/4 NPT Male
                                                                                                                                       PΖ
                                                                                                                                      RA
                                                                                                    1/8 NPT Male
                                                                                                                                                  G1/4 Male Flat with Snubber
                                                                                          PG
                                                                                                                                       RB
                                                                                                                                                  G1/4 Male Flat with Cross Bore Protection
                                                                                          РΗ
                                                                                                    M20x1.5
                                                                                                                                       RC
                                                                                                    M14x1.5 60° Internal Cone
                                                                                                                                                  M12 x 1.0 74° External Cone
                                                                                          ΡJ
                                                                                                                                       RD
                                                                                                     M12x1 Internal Cone
                                                                                                                                                  Quick Release Mount
                                                                                          PL
                                                                                                     7/16-20 UNJF Male 74°
                                                                                                                                                  VCR Male Note 3, 9
                                                                                                    External Cone
G1/2 Male via Adaptor Note 3 RQ
                                                                                                                                                  NW16 Flange
                                                                                          PΝ
                                                                                                    G1/4 Quick Connect
                                                                                          PO
                                                                                                                                                  R3/8 Male
                                                                                                    1/2 NPT Male via
                                                                                          PR
                                                                                                    Adaptor Note 3
                                                                                                                                      RV
                                                                                                                                                  R1/4 Male
                                                                                          PS
                                                                                                     1/4 Swagelok Bulkhead
                                                                                                                                      RW
                                                                                                                                                  G1/4 Male with Nipple
                                                                                                    G1/4 Male Flat Long
7/16-20 UNF Long 37° Flare Tip
                                                                                          PT
                                                                                          ΡU
                                                                                                    Typical Model Number
PTX
         5
                   0
                             7
                                      2 -
                                                                - CB
                                                                               H0 -
                                                                                         PA
```

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	K	М	R
Н0	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
H1	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	-	-	Υ
H2	Υ	-	Υ	Υ	Υ	Υ	-	-	Υ	-	Υ	-	-	-
H6	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Y	-	-	-
НА	Υ	-	Υ	Υ	Υ	Υ	-	-	Υ	-	Υ	-	-	-
HS	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	-	-	-
J1	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	-	-	Υ
JA	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	-	-	Υ
JB	Υ	-	Υ	Υ	Υ	Υ	-	-	Υ	-	Υ	-	-	-
JF	Υ	-	Υ	Υ	Υ	Υ	-	-	Υ	-	Υ	-	-	-

Note 7 Available with component certification, use of which requires incorporation into certified apparatus with an IP rated enclosure appropriate to the certification type supplied.

Note 8 Electronics option 2 only.

Note 9 Pressure ranges less than 500 bar.

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

Unit options are:

Syml bar mbar psi Pa hPa kPa MPa mml- cmH, mH ₂ c ftH ₂ C mml- inHg kgf/c	H ₂ O ₂ O O O O	Description bar millibar pounds/sq. inch Pascal hectoPascal kiloPoscal MegaPascal mm water cm water metres water inches water feet water mm mercury inches mercury kg force/sq. cm
atm Torr	111	atmosphere
1011		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 100 m (300 ft) for approval options not H0; 200 m (600 ft) for approval option H0.

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

Typical order examples:

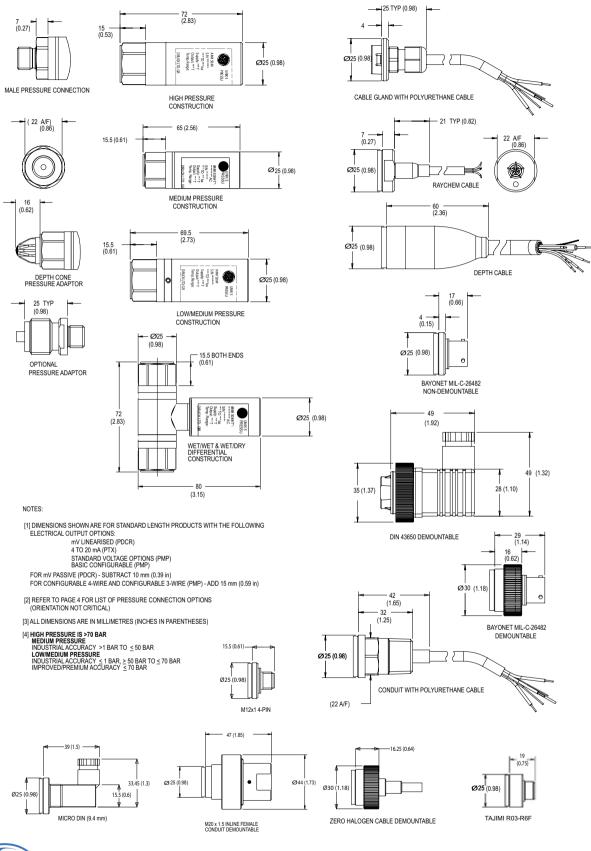
PTX5012-TB-A2-CA-H0-PA, 0 to 10 bar, gauge, 3 m cable PMP5028-TD-A3-CC-H0-PE, -15 to 75 psi, gauge, 15ft cable, output voltage -1 to 5 volts PDCR5071-TB-A1-CB-H0-PB, 0 to 100 bar, sealed gauge

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





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920-483J