

How to Order

Use the **Bold** characters from the chart below to construct a product code

Series **310X** **X** **XXXXX** **XX** **X** **000**

Variants to Standard Types

- 00** - Pressure output
01 - Pressure and temperature output (see **Note 1**)

Output

- B** - 4-20mA **C** - 1-6V
H - 1-5V **N** - 0.5 to 4.5V Non Ratiometric **R** - 0-5 V
S - 0-10V **T** - 0.5 to 4.5 Ratiometric

Pressure Range

- 0010G** - 10barG **0100S** - 100barS **1000S** - 1000barS)
0016G - 16barG **0160S** - 160barS **1600S** - 1600barS) (see **Note 2**)
0025G - 25barG **0250S** - 250barS **2200S** - 2200 barS)
0040G - 40barG **0400S** - 400barS
0060G - 60barG **0600S** - 600barS

Integral Pressure Connection

- 01** - G1/4 External
02 - 1/4- 18 NPT External
04 - 7/16-20 UNF External
05 - G1/4 External Soft Seal
08 - 1/8 NPT External
0L - M12 x 1.5 - 6g (600b and below)
1G - Schraeder Deflator (Short)
1J - 7/16 - 20 UNF External 'O' Ring Seal
2T - M12 x 1.5-6g (1000b and above)

Electrical Connection

- 6** - AMP Superseal 1.5 Series
7 - DIN 72585 Bayonet
8 - Deutsch Series DT-04
9 - Packard Metripak
B - Industrial DIN
E - M12x 1

For mating electrical connectors and cables see page 67.

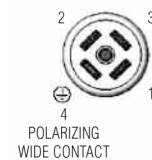
Note 1 Pressure and temperature output available with voltage output and electrical connectors B, E, 7 and 8 only

Note 2 Ranges 1000 bar and above available with 2T pressure port only.

ELECTRICAL CONNECTOR

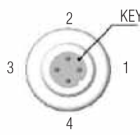
Code B

DIN43650C Industrial



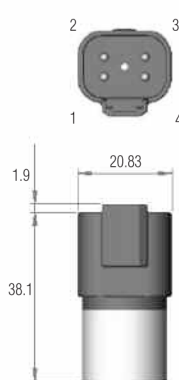
Code E

M12 x 1P



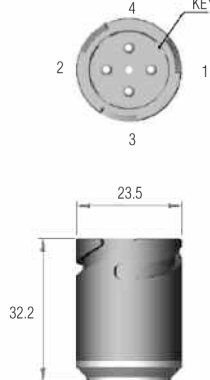
Code 8

Deutsch DT04-4P



Code 7

DIN72585A1-4, 1



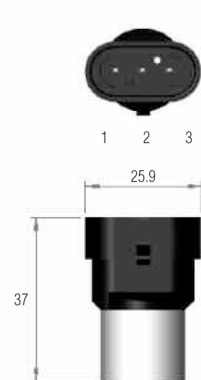
Code 9

Packard MetriPack



Code 6

Amp Superseal 1.5



Note: The diameter of all cans is 19mm [.748]

Pin #	Function	
	Current	Voltage
1	N/A	Press O/P +VE
2	+VE	Supply +VE
3	N/A	Temp O/P +VE
4	-VE	Common

Pin #	Function	
	Current	Voltage
1	+VE	Supply +VE
2	N/A	Press O/P +VE
3	-VE	Common
4	N/A	Temp O/P +VE

Pin #	Function	
	Current	Voltage
1	-VE	Common
2	+VE	Supply +VE
3	N/A	Temp O/P +VE
4	N/A	Press O/P +VE

Pin #	Function	
	Current	Voltage
1	+VE	Supply +VE
2	-VE	Common
3	N/A	Press O/P +VE
4	N/A	Temp O/P +VE

Pin #	Function	
	Current	Voltage
A	-VE	Common
B	+VE	Supply +VE
C	N/A	Press O/P +VE

Pin #	Function	
	Current	Voltage
1	N/A	Press O/P +VE
2	-VE	Common
3	+VE	Supply +VE

3100 Series Compact High Pressure OEM Pressure Transmitter

- ▶ 10 bar to 2200bar pressure ranges
- ▶ Less than 25mm long
- ▶ Choice of outputs

For OEMs that need consistent high levels of performance, reliability and stability the 3100 Series sputtered thin film units offer unbeatable price performance ratio in a small package size with all stainless steel wetted parts in the volumes required. A wide choice of electrical outputs as well as both electrical and pressure connections means the unit is suitable for most applications without modification. The compact construction of the 3100 series makes it ideal for installation where space is at a premium.

Specifications

Input

Pressure Range	0 to 10bar to 0 to 2200bar G (100 to 30,000psi)
Proof Pressure	2 x FS (Ranges 1600 & 2200bar 1.5x)
Burst Pressure	Ranges ~ 400bar 10 x minimum 600 & 1000b 4 x, 1600 & 2200 1.8x
Fatigue Life	Designed for more than 100,000,000 cycles

Performance

Long Term Drift	0.1% FS/year non cumulative
Accuracy	±0.25% FS (Temp O/P ± 2.5%FS)
Thermal Error	±1% typical/100°C
Compensated Temperature	-40° to 120°C (-40° to 250°F)
Operable	-40° to 125°C (-40° to 250°F)
Zero Tolerance	±0.5% of span
Span Tolerance	±0.5% of span

Mechanical Construction

Pressure Port	See ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	See ordering chart

Enclosure	IP65 for electrical code B (with connector fitted) IP67 for electrical codes E, 6, 7, 8 and 9
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Vibration	20G, 10-2000Hz sinusoidal
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	35 gms

Individual Specifications

Voltage Output Units

Output	See ordering chart (current 4.5mA)
Supply Voltage	2 Volts above Full Scale, to max 30 Volts

Current Output Units

Output	4-20mA
Supply Voltage	10 to 30Vdc (24Vdc max for 110° and above)
Max. Loop Resistance	(Vs-10) x 50 ohms

Ratiometric Output Units

Output	0.5 to 4.5Vdc (3.5mA max)
Supply Voltage	5Vdc, ± 10%

MECHANICAL FITTINGS

Code 01
G 1/4 EXT



Code 04
7/16"-20 UNF
with 37° Flare



Code 1J
7/16"-20 UNF
O-Ring



Code 02
1/4"-18 NPT



Code 08
1/8"-27 NPT



Code 05
G 1/4"A
Integral Face Seal



Code 0L
M12 x 15



Code 2T
M12x1.5 HP
[metal washer seal]



Code 1G
7/16"Schraeder



Hex is 22mm [.866"] Across Flats (A/F) for deep socket mounting.
Other thread forms available. Consult factory.

NOTE: Dimensions in mm

Electrical Connectors



AMP Superseal 1.5



DIN 43650C Industrial



DIN 72585 Bayonet



M12 Ranges



Deutsch DTD4-4P



Packard Metri-pack

2200 Series / 2600 Series- Universal Industrial Pressure Transducers

- ▶ Gauge, Absolute, Vacuum and Compound Pressure Models Available
- ▶ Submersible, General Purpose and Wash down Enclosures
- ▶ High Stability Achieved by CVD Sensing Element
- ▶ Millivolt, Voltage and Current Output Models

The 2200 series features stability and accuracy in a variety of enclosure options. The 2600 series extends the packaging options via an all welded stainless steel back end for demanding submersible and industrial applications. The 2200 and the 2600 feature proven CVD sensing technology, an ASIC (amplified units), and modular packaging to provide a sensor line that fits most applications and can easily accommodate specials while not sacrificing high performance.

Specifications

Input	
Pressure Range	Vacuum to 400 bar G (6000 psi) 0 - 25 bar Absolute
Proof Pressure	2 x Full Scale (FS) (1.5 x Fs for 400 bar, >= 5000 psi)
Burst Pressure	>35 x FS <= 6 bar (100 psi); >20 x FS >= 60 bar (1000 psi); >5 x FS <= 400 bar (6000 psi)
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.25 % FS typical (optional 0.15% FS)
Thermal Error	1.5% FS typical (optional 1% FS)
Compensated Temperatures	-20° to 80° C (-5° to 180° F)
Operating Temperatures	-40° to 125° C (-40° to 260° F) for elec. codes A, B, C, 1 -20° to 80° C (-5° to 180° F) for elec. codes 2, D, G, 3 -20° to 50° C (-5° to 125° F) for elec. codes F,M, P
Zero Tolerance	1% of span
Span Tolerance	1% of span
Mechanical Configuration	
Pressure Port	see ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	see ordering chart
Enclosure	316 ss, 17-4 PH ss IP65 for elec. codes A, B, C, D, G, 1, 2, 3 IP67 for elec. code "F" IP68 for elec. code M IP30 for elec. code "3" with flying leads
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1 bar (15 psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000 psi) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	CE
Weight	approx. 100 grams (additional cable; 75 g/m)

Individual Specifications

Millivolt Output units	
Output	100 mV +/-1 mV
Supply Voltage (Vs)	10 Vdc (15 Vdc max.) Regulated
Bridge resistance	2600-6000 ohms
Voltage Output units	
Output	see ordering chart
Supply Voltage (Vs)	1.5 Vdc above span to 35 Vdc @ 6 mA
Supply Voltage Sensitivity	0.01% FS/Volt
Min. Load Resistance	(FS output / 2) Kohms
Current Consumption	approx 6 mA at 7.5V output
Current Output units	
Output	4-20 mA (2 wire)
Supply Voltage (Vs)	24 Vdc, (7-35 Vdc) Above 100°C supply limited to 24 Vdc
Supply Voltage Sensitivity	0.01% FS/Volt
Max. Loop Resistance	(Vs-7) x 50 ohms



CE

c RU US



CE

c RU US

Indicators and Accessories Pages 61-66

ISO
9001

Connection Code			mV Units				Current units (4-20mA)			Voltage units			
			IN+	OUT+	OUT-	IN-	(+)	(-)	EARTH	IN+	COM	OUT+	EARTH
A, B, G	Industrial DIN	PIN	1	2	3	E	1	2	4	1	2	3	4
C	"10-6 Bayonet"	PIN	A	B	C	D	A	B	E	A	C	B	E
D	"cable"		R	Y	BL	G	R	BK	DRAIN	R	BK	W	DRAIN
F	"IP 67 cable"		R	Y	BL	G	R	BL	DRAIN	R	BK	W	DRAIN
M	"Immersible"		R	Y	BL	W	R	BL	DRAIN	R	W	Y	DRAIN
1	"8-4 Bayonet"	PIN	A	B	C	D	A	B	D	A	C	B	D
2	"cable"		R	W	G	BK	R	BK	DRAIN	R	BK	W	DRAIN
3	"conduit & cable"		R	W	G	BK	R	BK	DRAIN	R	BK	W	DRAIN

Cable Legend:

R = Red
 BL = Blue
 BK = Black
 W = White
 G = Green
 Y = Yellow

How to Order

Use the **bold** characters from the chart below to construct a product code

Series 2200 2600

Output A - 100 mV C - 1-6V J - 0.5-5.5V
B - 4-20mA D - 1-11V R - 0-5V
H - 1-5V S - 0-10V

Pressure Datum A* - Absolute G - Gauge
 *Max absolute range is 25 bar.

Pressure Range - bar (see note 3) A10 - 0-1 B25 - 0-25 Vac = -1 bar
A16 - 0-1.6 B40 - 0-40 1A0 - Vac-0
A25 - 0-2.5 B60 - 0-60 1A6 - Vac-0.6
A40 - 0-4 C10 - 0-100 2A5 - Vac-1.5
A60 - 0-6 C16 - 0-160 4A0 - Vac-3
B10 - 0-10 C25 - 0-250 6A0 - Vac-5
B16 - 0-16 C40 - 0-400 1B0 - Vac-9
1B6 - Vac-15
2B5 - Vac-24
4B0 - Vac-39

Pressure Range - psi (see note 3) F15 - 0-15 G60 - 0-600 Vac = -15 psi
F30 - 0-30 H10 - 0-1,000 1F5 - Vac-0
F60 - 0-60 H15 - 0-1,500 3F0 - Vac-15
G10 - 0-100 H20 - 0-2,000 6F0 - Vac-45
G15 - 0-150 H30 - 0-3,000 1G0 - Vac-85
G20 - 0-200 H40 - 0-4,000 1G5 - Vac-135
G30 - 0-300 H50 - 0-5,000 2G0 - Vac-185
G50 - 0-500 H60 - 0-6,000 3G0 - Vac-285

Pressure Port 01 - G1/4 External 08 - 1/8-27 NPT External
02 - 1/4-18 NPT External 09 - G1/8 Internal
03 - G1/2 Manometer 00 - G1/4 Internal
04 - 7/16-20UNF to SAE J514 0A - R1/4 External **Others** - Consult
05 - G1/4 Ext. Soft Seal 19 - Nose Cone (2600 Only) Factory

Electrical Connection 2200 Series
A - Industrial DIN Mating Connector Supplied
B - Industrial DIN Mating Connector Not Supplied
2 - Cable Nema 4 USA
D - Cable Weatherproof IP65 Europe
F - Cable Gland Metal IP67

2600 Series
C - Fixed Plug Size 10-6 Mating Plug Not Supplied
G - Fixed Plug To DIN 43650 Mating Plug Supplied
M - Moulded Cable Immersible Max. (See Note 1)
1 - Fixed Plug Size 8-4 Mating Plug Not Supplied
3 - Conduit Connector 1/2NPT Ext. 1M Cable (See Note 2)

Performance Code
 Accuracy/Thermal
A - .25%/1.5%
B - .15%/1.0%

Cable Length
See Table 1

Apparatus Protection
2 - mV Transient Protection CE Mark
3 - Amplified RFI Protected CE Mark

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Notes:

- Where electrical connection **-M** is specified, customer must select cable length from Table 1.
- Where electrical connection **-3** and cable length **-U** occur in part number, the unit will be supplied with flying leads (IP30).
- Additional Pressure Ranges are available. Minimum range 500mb - please consult factory.

Table 1 - Cable Units

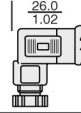
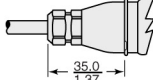
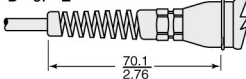
(2600 Series) (2200 Series select "U" through "G")

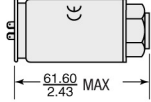
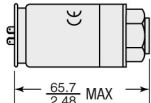
Code	Length (M)	Code	Length (M)	Code	Length (M)	Code	Length (M)
U	No Cable Fitted	F	5	K	25	P	75
		G	10	L	30	Q	100
D	1	H	15	M	40	R	125
E	3	J	20	N	50	S	150

Code	Length (M)
4	170
5	200
6	225

Dimensions

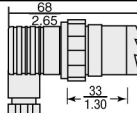
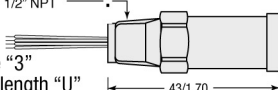
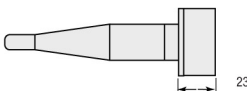
2200 Series

Industrial DIN Connector	
Code "B"	
Industrial DIN Connector (mate supplied)	
Code "A"	
IP67 Cable	
Code "F"	
IP65 or NEMA4 Cable	
Code "D" or "2"	

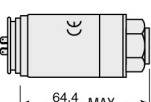
mV Gauge/Absolute Amplified Gauge

Amplified Absolute


Maximum diameter 27.3 mm (1.07")

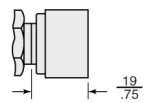
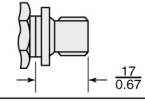
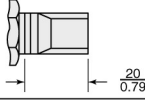
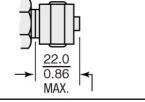
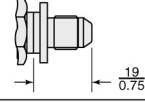
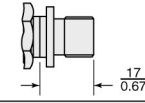
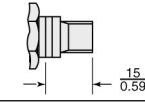
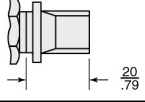
2600 Series

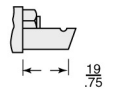
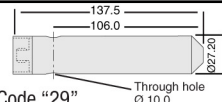
10-6 or 8-4 Mil-C Connector	
10-6 Code "C"	
8-4 Code "1"	
Large DIN 43650 Plug (mate supplied)	
Code "G"	
Conduit Connector with Cable	
Code "3" 1/2" NPT	
Conduit Connector with Flying Leads	
Code "3" with length "U" 1/2" NPT	
Moulded, Immersible Cable	
Code "M"	

mV Gauge/Absolute Amplified Gauge

Amplified Absolute


Maximum diameter 27.3 mm (1.07")

G 1/4 Internal	
Code "00"	
G 1/4 External	
Code "01"	
1/4 - 1/8 NPT	
Code "02"	
G 1/2 Manometer	
Code "03"	
7/16-20 UNF-2A	
Code "04"	
G 1/4 Soft Seal	
Code "05"	
1/8-27 NPT	
Code "08"	
R 1/4	
Code "0A"	
G 1/8 Internal	
Code "09"	

Nose Cone - Black Acetal	
Code "19"	
Nose Cone Sink Weight	
Code "29"	

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Others - Consult factory

22IS Series/26IS Intrinsically Safe Industrial Pressure Transmitters

- ▶ Ex II 1G ; E Ex ia IIBT4 (-20°C ≤ Ta ≤ 75°C)
- ▶ Ranges from 0.5b to 400b gauge
- ▶ Voltage and 2 wire 4-20mA output models
- ▶ All Stainless steel wetted parts

Certified to the latest harmonised European standard (ATEX) the 22IS and 26IS Intrinsically safe pressure transmitters are designed to withstand the rigours of the most difficult applications with an all stainless steel construction, free from seals or oil barriers.

Incorporating Gems CVD Sensors and ASIC technology the 22IS and 26IS offer long term reliability, excellent performance and long term stability ensuring long service life without routine maintenance.

Available with a wide choice of pressure fittings units can be supplied to IP65 or fully immersible to IP68 200mwg and a variety of electrical connectors.

Specification

Input

Pressure Range	Vacuum to 400 bar (6000 psi) Gauge datum only
Proof Pressure	2 x Full Scale (FS) (1.5 x Fs for 400 bar, >= 5000 psi)
Burst Pressure	>35 x FS <= 6 bar (100 psi); >20 x FS >=60 bar (1000 psi); >5 x FS <= 400 bar (6000 psi)
Fatigue Life	Designed for more than 100 million FS cycles

Performance

Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.25 % FS typical (optional 0.15% FS)
Thermal Error	1.5% FS typical (optional 1% FS)
Compensated Temperatures	-20° to 80° C (-5° to 180° F)
Operating Temperatures	-40° to 125° C (-40° to 260° F) for elec. codes A, B, C -20° to 80° C (-5° to 180° F) for elec. code G -20° to 50° C (-5° to 125° F) for elec. codes F,M, 3
Zero Tolerance	1% of span
Span Tolerance	1% of span

Mechanical Configuration

Pressure Port	see ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	see ordering chart
Enclosure	316 ss, 17-4 PH ss IP65 for elec. codes A, B, C, G, 3 IP67 for elec. code "F" IP68 for elec. codes M,
Vibration	35g peak sinusoidal, 5 to 2000 Hz
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1 bar (15 psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000 psi) range
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	Ex II 1G ; E Exia IIB T4
Weight	approx. 100 grams (additional cable; 75 g/m)

Individual Specifications

Voltage Output units

Output	see ordering chart
Supply Voltage (Vs)	1.5 Vdc above span to 25.5 Vdc
Supply Voltage Sensitivity	0.01% FS/Volt
Min.Load Resistance	(FS output / 2) Kohms
Current Consumption	approx 6 mA at 7.5V output

Current Output Units

Output	4-20 mA (2 wire)
Supply Voltage (Vs)	24 Vdc, (7-25.5 Vdc) Above 100°C supply limited to 24Vdc
Supply Voltage Sensitivity	0.0 1% FS/Volt
Max. Loop Resistance	(Vs-7) x 50 ohms



CE



CE

Ex II 1G

Wire Code		Current Units (4-20mA)			
		(+)	(-)	EARTH	
A, B, G	Industrial DIN	PIN	1	2	4
C	“10-6 Bayonet”	PIN	A	B	E
D	cable		R	BK	DRAIN
F	IP 67cable		R	BL	DRAIN
1	“8-4-Bayonet”	PIN	A	BK	D
2	“cable”		R	BK	DRAIN
3	“conduit & cable”		R	BK	DRAIN

Wire Code			Voltage Units			
			IN+	COM	OUT+	EARTH
A, B, G	Industrial DIN	PIN	1	2	3	4
C	10-6 Bayonet	PIN	A	C	B	E
D	cable		R	BK	W	DRAIN
F	IP 67cable		R	BK	W	DRAIN
1	“8-4-Bayonet”	PIN	A	C	B	D
2	“cable”		R	BK	W	DRAIN
3	“conduit & cable”		R	BK	W	DRAIN

Cable Legend:

R = Red
BL = Blue
BK = Black
W = White
Y = Yellow

How to Order

Use the **bold** characters from the chart below to construct a product code

Series **22IS** **26IS**

Output **B** - 4-20mA **C** - 1-6V **J** - 0.5-5.5V
D - 1-11V **R** - 0-5V
H - 1-5V **S** - 0-10V

Pressure Datum **G** - Gauge

Pressure Range - bar (see note 1)
A10 - 0-1 **B25** - 0-25 **Vac** = -1 bar
A16 - 0-1.6 **B40** - 0-40 **1A0** - Vac-0
A25 - 0-2.5 **B60** - 0-60 **1A6** - Vac-0.6
A40 - 0-4 **C10** - 0-100 **2A5** - Vac-1.5
A60 - 0-6 **C16** - 0-160 **4A0** - Vac-3
B10 - 0-10 **C25** - 0-250 **6A0** - Vac-5
B16 - 0-16 **C40** - 0-400 **1B0** - Vac-9
1B6 - Vac-15
2B5 - Vac-24
4B0 - Vac-39

Pressure Range - psi (see note 1)
F15 - 0-15 **G60** - 0-600 **Vac** = -15 psi
F30 - 0-30 **H10** - 0-1,000 **1F5** - Vac-0
F60 - 0-60 **H15** - 0-1,500 **3F0** - Vac-15
G10 - 0-100 **H20** - 0-2,000 **6F0** - Vac-45
G15 - 0-150 **H30** - 0-3,000 **1G0** - Vac-85
G20 - 0-200 **H40** - 0-4,000 **1G5** - Vac-135
G30 - 0-300 **H50** - 0-5,000 **2G0** - Vac-185
G50 - 0-500 **H60** - 0-6,000 **3G0** - Vac-285

Pressure Port **01** - G1/4 External **08** - 1/8-27 NPT External
02 - 1/4-18 NPT External **09** - G1/8 Internal
03 - G1/2 Manometer **00** - G1/4 Internal
04 - 7/16-20UNF to SAE J514 **0A** - R1/4 External **Others** - Consult
05 - G1/4 Ext. Soft Seal **19** - Nose Cone (2600 Only) Factory

Electrical Connection
22IS Series
A - Industrial DIN Mating Connector Supplied
B - Industrial DIN Mating Connector Not Supplied
F - Cable Gland Metal IP67

26IS Series
C - Fixed Plug Size 10-6 Mating Plug Not Supplied
G - Fixed Plug To DIN 43650 Mating Plug Supplied
M - Moulded Cable Immersible Max.
1 - Fixed Plug Size 8-4 Mating Plug Not Supplied
3 - Conduit Connector 1/2NPT Ext. 1M Cable

Performance Code
Accuracy/Thermal
A - .25%/1.5%
B - .15%/1.0%

Cable Length (See Note 2)
U - No Cable Fitted
D - 1 Metre
E - 3 Metres
F - 5 Metres
G - 10 Metres
H - 15 Metres
J - 20 Metres
K - 25 Metres
L - 30 Metres
M - 40 Metres
N - 50 Metres
P - 75 Metres
Q - 100 Metres
R - 125 Metres
S - 150 Metres

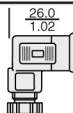
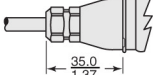
Apparatus Protection
B - Intrinsically Safe, zener or galvanic isolation
 II IG
E Exia IIB T4

Notes:

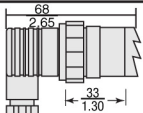
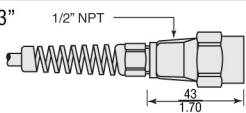
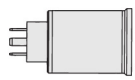
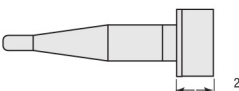
1 Additional Intermediate Pressure Ranges are available. Minimum range 500mb (7.5psi) - please consult factory.
2 Maximum cable length permitted 150 metres. 2200 select U through G.

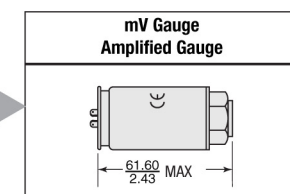
Dimensions

22IS Series

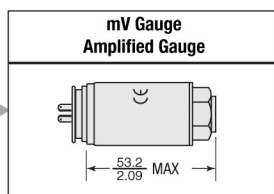
Industrial DIN Connector	
Code "B"	
Industrial DIN Connector (mate supplied)	
Code "A"	
IP67 Cable	
Code "F"	

26IS Series

10-6 or 8-4 Mil-C Connector	
10-6 Code "C"	
8-4 Code "1"	
Large DIN 43650 Plug (mate supplied)	
Code "G"	
Conduit Connector with Cable	
Code "3"	
Micro DIN Connector	
Code "T"	
Moulded, Immersible Cable	
Code "M"	

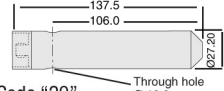


Maximum diameter 27.3 mm (1.07")



Maximum diameter 27.3 mm (1.07")

G 1/4 Internal	
Code "00"	
G 1/4 External	
Code "01"	
1/4 - 1/8 NPT	
Code "02"	
G 1/2 Manometer	
Code "03"	
7/16-20 UNF-2A	
Code "04"	
G 1/4 Soft Seal	
Code "05"	
1/8-27 NPT	
Code "08"	
R 1/4	
Code "0A"	
G 1/8 Internal	
Code "09"	

Nose Cone - Black Acetal	
Code "19"	
Nose Cone Sink Weight	
Code "29"	

Indicators and Accessories Pages 61-66

Others - Consult factory

5000 Series Low Range Pressure Transducer



- ▶ Submersible and General Purpose Models
- ▶ Open Faced for Viscous Liquids
- ▶ High Proof Pressures

The 5000 Series features a sturdy ceramic diaphragm and precision capacitance technology to detect minute pressure variations, while withstanding large pressure spikes. The tough ceramic sensor is housed in a stainless steel case to ensure performance in the most demanding applications. Both voltage and 4-20mA outputs are available at time of order. A switch and potentiometer can be accessed for field adjustment of range with 3:1 ranging capability.

Specifications

Input

Pressure Range	0 to 25mb to 0 to 1 bar
Proof Pressure	2 bar for ranges 200mb and below 4 bar for ranges 201mb to 350mb 7 bar ranges 351mb to 1 bar
Burst Pressure	3 bar for 70mb and below 4 bar for 71mb to 200mb 6 bar for 201mb to 350mb 10 bar for bar ranges 351mb to 1 bar
Fatigue Life	10 million FS cycles

Performance

Long Term Stability	.25% span/annum
Accuracy	.2% span max
Thermal Error	2% span max
Compensated Temperatures	-20°C to 60°C (-5° to 140°F)
Operating Temperatures	-25°C to +85°C (-15° to 185°F) Electrical Code G and L -20°C to +50°C (-5° to 120°F) Electrical Code M and 3 -40°C to +100°C (-40° to 212°F) Process media
Zero Tolerance	0.1% span
Span Tolerance	0.1% span
Mounting Effects	.25% span max
Response Time	5ms
Supply Voltage Sensitivity	.01% span/volt
Zero Adjustment	±10% (by potentiometer)
Span Adjustment	±10% (by potentiometer)

Mechanical Configuration

Pressure Port	(See Ordering Guide)
Wetted Parts	S/S to UNS 31803; Inconel 625, Ceramic & Nitrile
Electrical Connection	(See Ordering Guide)
Enclosure	Code M IP68 Submersible Code G IP65
Approvals	CE ExII 1G, EExia IIB
Weight	330gms (excluding cable)

Individual Specifications

Voltage Output units

Output	(See Ordering Guide)
Supply Voltage (Vs)	2V above FRO or 7.5V whichever is greater, up to 35V Max

Current Output Unit

Output	4-20 mA (2 wire)
Supply Voltage (Vs)	9 to 35 Vdc
Max. Loop Resistance	(Vs-9) x 50 ohms



How to Order

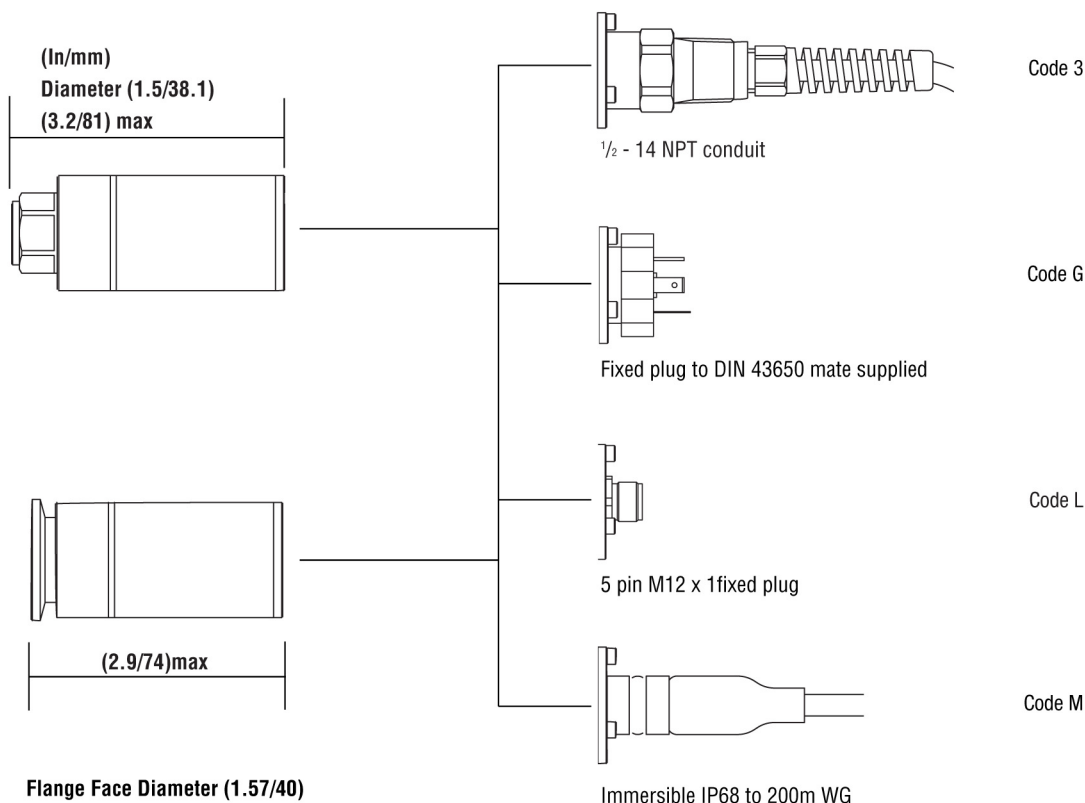
Use the Bold characters from the chart below to construct a product code

SELECT

1. 5000 series _____
2. Output: _____
B 4–20mA **C** 1–6Vdc **F** 0.1–5.1Vdc **H** 1–5Vdc
J 0.5–5.5Vdc **R** 0–5Vdc
3. Pressure Datum: **G** gauge _____
4. Pressure range code* _____
M70 25 to 70mb
N20 71mb to 200mb
N35 201mb to 350mb
A10 351mb to 1 bar

* specify range setting required at time of order
 eg. 0 to 75mb, 0 to 1mwg etc

5. Pressure Connection _____
OO G1/4 Internal
OF KF25 Flange
AK G 1/4 external
BK 1/4 - 18NPT external
KK 7/16 - 20unf - 3A external
MK M14x1.5 external
6. Electrical Connection _____
G Fixed Plug to DIN 43650, Mating Connector Supplied
L M12 x 1 (5 pin)
M Immersible Cable Assembly, IP68
7. Approvals _____
3 CE Marked
G ATEX approved EX11 1G
 Exeia II CT4, galvanic isolators
8. Cable Length _____
 000 = No Cable
 001 = 1 metre
 999 = 999 metres etc
9. Static/Thermal Error Band _____
A 0.25%/2%



Electrical connection	Wiring mA			Wiring Voltage			
	+	-	EARTH	+IN	OV	+OP	EARTH
G DIN	PIN 1	2	4	1	2	3	4
M IP68 CABLE	RED	BLUE	DRAIN	RED	WHITE	YELLOW	DRAIN

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