

22IC Series / 26IC Series – CSA Intrinsically Safe Industrial Pressure Transducers

- ▶ Ex II 1G; Ex ia IIC T4 Ga
- ▶ Vacuum to 6,000 PSI (400 bar); Absolute or Gauge
- ▶ Voltage and 2 Wire 4-20mA Output Models
- ▶ All Stainless Steel Wetted Parts

Certified to the latest harmonized European standard (ATEX) the 22IC and 26IC 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 22IC and 26IC 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.

Specifications

Input	
Pressure Range	Vacuum to 6000 psi G (400 bar) 0-363 psi Absolute (0-25 bar)
Proof Pressure	2 x Full Scale (FS) (1.5 x FS for ≥ 5000 psi, 400 bar)
Burst Pressure	>35 x FS <= 100 psi (6 bar); >20 x FS <= 1000 psi (60 bar); >5 x FS <= 6000 psi (400 bar)
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	-40°F to +260°F (-40°C to +125°C) for elec. codes A, B, C
Operating Temperatures	-5°F to +180°F (-20°C to +80°C) for elec. code G -5°F to +125°F (-20°C to +50°C) 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 (with connector fitted) 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 15 psi (1 bar) range decreasing logarithmically to 0.0007% FS/g for 6000 psi (400 bar) range.
Shock	Withstands free fall to IEC 68-2-32 procedure 1
Approvals	Ex II 1G; Ex ia IIC T4 Ga, -4°F ≤ Ta ≤ +167°F (-20°C ≤ Ta ≤ +75°C)
Weight	Approx. 3.5 ounces (100 grams) (additional cable; 75 g/m)

Series 22IC



Series 26IC



Individual Specifications

Voltage Output units	
Output	see ordering chart
Supply Voltage (Vs)	1.5 Vdc above FS output 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, (7-35 Vdc) above 212°F (100°C) supply
Supply Voltage Sensitivity	0.01% FS/Volt
Max. Loop Resistance	(Vs-7) x 50 ohms

PRESSURE TRANSDUCERS

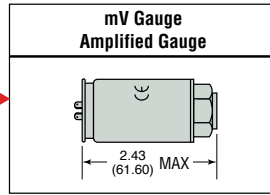
Dimensions

22IC Series

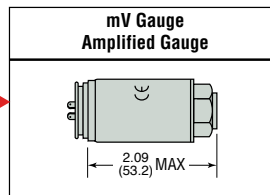
Mini 4 Pin - No Connector	
Code B	
Mini 4 Pin - With Connector	
Code A	
IP67 Cable (Waterproof)	
Code F	
IP65 or NEMA4 Cable	
Code D or 2	

26IC Series

10-6 or 8-4 Mil-C Connector	
10-6 Code C	
8-4 Code 1	
Large DIN 43650 Plug	
Code G	
Conduit Connector with Cable	
Code 3	
Conduit Connector with Flying Leads	
Code T	
Moulded, Immersible Cable	
Code M	



Maximum diameter 1.07" (27.3 mm)



Maximum diameter 1.07" (27.3 mm)

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

Nose Cone - Black Acetal	
Code 19	
Nose Cone Sink Weight	
Code 29	Through hole Ø0.39 (10.0)

inch
(mm)

