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Find the *Schneider Electric / Invensys / Foxboro IGP10-T22D1F-L1* at our website: *Click HERE*

IGP10, IGP20 Intelligent Gauge Pressure Transmitters
IAP10 Intelligent Absolute Pressure Transmitter

- IGP10 for compact light weight and direct-to-process mounting (bracket optionally available)
- IGP20, bracket mounted, for lower ranges, more material options, and vacuum service
- Field-proven silicon strain gauge technology
- Corrosion-resistant epoxy finish
- Accuracy to ± 0.07 % of span
- Ambient temperature effects to ± 0.2 % URL per 55 °C (100 °F) change
- Intelligent FOXCOM & HART / 4 to 20 mA version or economical 4 to 20 mA version
- LCD Indicator / Pushbutton Configurator to set zero, span, display units, etc. Optional on Digital / 4 to 20 mA version, Standard on 4 to 20 mA version



These Intelligent, two-wire transmitters provide precise, reliable, measurement of gauge or absolute pressure, and transmit a 4 to 20 mA output signal with a superimposed HART/ FOXCOM digital signal for remote configuration and monitoring.

IGP10 Span, Range and Overrange Limits
IAP10 Span, Range and Overrange Limits

Span Limits Code	Span Limits			Range Limits			Maximum Overrange		
	kPa	psi	bar (kg/cm²)	kPa	psi	bar (kg/cm²)	kPa	psi	bar (kg/cm²)
C	7 & 210	1 & 30	0.07 & 2.1	0 & 210	0 & 30	0 & 2.1	310	45	3.15
D	70 & 2100	10 & 300	0.7 & 21	0 & 2100	0 & 300	0 & 21	3100	450	31.5
E	700 & 21000	100 & 3000	7 & 210	0 & 21000	0 & 3000	0 & 210	31000	4500	315

IGP20 Span, Range and Overrange Limits

Span Limits Code	Span Limits			Range Limits			Maximum Overrange		
	kPa	psi	bar (kg/cm²)	kPa	psi	bar (kg/cm²)	kPa	psi	bar (kg/cm²)
B	0.87 & 50	0.125 & 7	0.0087 & 0.5	–50 & 50	–7 & 7	–0.5 & 0.5	25000	3625	250
C	7 & 210	1 & 30	0.07 & 2.1	–100 & 210	–14.7 & 30	–1 & 2.1	25000	3625	250
D	70 & 2100	10 & 300	0.7 & 21	–100 & 2100	–14.7 & 300	–1 & 21	25000	3625	250
E	700 & 21000	100 & 3000	7 & 210	–100 & 21000	–14.7 & 3000	–1 & 210	25000	3625	250

Temperature Limits

	Fill fluid Flourinert	Fill fluid Silicone
Ambient:	–29 to 85 °C (–20 to 185 °F)	–40 to 85 °C (–40 to 185 °F)
Sensor:	–29 to 121 °C (–20 to 250 °F)	–46 to 121 °C (–50 to 250 °F)

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Accuracy (Includes Linearity, Hystersis, and Repeatability)

Electronics Version	Configured Output Signal	Accuracy in % of Calib. Span
-D & -T	Digital 4 to 20 mA	± 0.07 ± 0.1
-I	4 to 20 mA	± 0.2

Ambient Temperature Effect

Total effect for a 55 °C (100 °F) change within Normal Operating Conditions limit is:

Electronics -D, -T: ± 0.2 % of URL

Electronics -I: ± (0.2 % of URL + 0.1 % of span)

For complete specifications, refer to Product Specification Sheet PSS 2A-1C13 B

Model Codes IGP10

Intelligent Direct Connected Gauge Pressure Transmitter	**IGP10**					
Electronics Versions and Output Signal						
Intelligent; Digital FoxCom and/or 4 to 20 mA dc, Configurable	-D					
Intelligent; Digital HART and 4 to 20 mA	-T					
4 to 20 mA Analog Output, Explosionproof and Intrinsically Safe	-I					
Structure Code - Process Connection, Sensor, and Fill Fluid						
Process Connection Mat'l / Sensor / Fill Fluid						
316L ss / Co-Ni-Cr / Silicone		20				
316L ss / Co-Ni-Cr / Fluorinert		21				
316L ss / 316L ss / Silicone		22				
316L ss / 316L ss / Fluorinert		23				
Span Limits - Absolute or Gauge Pressure Units, as Applicable						
MPa / psi / bar or kg/cm²						
0.007 and 0.21 / 1 and 30 / 0.07 and 2.1			C			
0.07 and 2.1 / 10 and 300 / 0.7 and 21			D			
0.7 and 21 / 100 and 3000 / 7 and 210			E			
Conduit Connection						
1/2 NPT Conduit Connection, Both Sides				1		
PG 13.5 Conduit Connection, Both Sides (available only with Electrical Safety Codes E & N				2		
Electrical Safety (See Electrical Safety Specifications Section)						
CENELEC Certified Intrinsically Safe, ia					E	
CSA Certified					N	
EUROPEAN Ex, N, IIC. Nonsparking					C	
FM Approved					F	
SAA Certified, EEx, d, IIC					A	
Options						
Mounting Bracket Set						
Painted Steel Bracket with Plated Steel Bolts						M1
Stainless Steel Bracket with Stainless Steel Bolts						M2
Digital Indicator with Pushbuttons (standard equipment on IGP10-I)						
Digital Indicator, Pushbuttons, and Window Cover (for Electr Version D & T only)						-L1
Vent Screw and Block & Bleed Valve						
Vent Screw in Process Connection for IGP10/IAP10; or in High Side Process Cover for IGP20						V1
Block and Bleed Valve, Carbon Steel						V2
Block and Bleed Valve, 316 ss						V3
Block and Bleed Valve, 316 ss Body w/Monel Trim (NACE Approved)						V4
Conduit Thread Adapters						
Hawke-Type 1/2 NPT Cable Gland for use with Conduit Connection Code "1"						A1
Plastic PG 13.5 Connector for use with Conduit Connection Code "2" (available only with Electrical Safety Codes E & N)						A2
M20 Connector for use with Conduit Connection Code "1"						A3
Electronics Housing Features						
External Zero Adjustment						Z1
Custody Transfer Lock and Seal						Z2
External Zero Adjustment and Custody Transfer Lock and Seal						Z3
Factory Configuration						
Digital Output (4 to 20 mA Default if not selected)						C1
Full Factory Configuration (Requires Configuration Form to be filled out)						C2
Miscellaneous Optional Selections						
G 1/2 B Manometer Process Connection (Not Available with Option "-V1")						G
R 1/2 Process Connection (1/2 NPT to R 1/2 Adapter)						R
Five Year Warranty						W
Supplemental Customer Tag (Stainless Steel Tag wired onto Transmitter)						T

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Model Codes IGP20

Intelligent Bracket-Mounted Gauge Pressure Transmitter						**IGP20**			
Electronics Versions and Output Signal									
Digital, FOXCOM, or 4 to 20 mA dc, Software Selectable							D		
Digital, HART/4 to 20 mA							T		
4 to 20 mA							I		
Structure Code - Process Cover, Sensor Material, and Sensor Fill Fluid									
Hi-Side Cover	**Sensor Material**	**Fill Fluid**							
Steel	Co-Ni-Cr	Silicone					10		
Steel	Co-Ni-Cr	Fluorinert					11		
Steel	316L ss	Silicone					12		
Steel	316L ss	Fluorinert					13		
Steel	Hastelloy C	Silicone					16		
Steel	Hastelloy C	Fluorinert					17		
316 ss	Co-Ni-Cr	Silicone	Value Package				20		
316 ss	Co-Ni-Cr	Fluorinert					21		
316 ss	316L ss	Silicone					22		
316 ss	316L ss	Fluorinert					23		
316 ss	Hastelloy C	Silicone					26		
316 ss	Hastelloy C	Fluorinert					27		
Hastelloy C	Hastelloy C	Silicone					46		
Hastelloy C	Hastelloy C	Fluorinert					47		
Span Limits (Differential Pressure Units)									
kPa	psi	mbar	inH_2O	mmHg					
0.87 and 50	0.125 and 7	8.7 and 500	3.5 and 200	6.5 and 375				B	
MPa	psi	bar or kg/cm²	inH_2O	mmHg					
0.007 and 0.21	1 and 30	0.07 and 2.1	28 and 840	52 and 1550				C	
0.07 and 2.1	10 and 300	0.7 and 21						D	
0.7 and 21	100 and 3000	7 and 210						E	
Process Connector Type (Material Same as Process Cover Material)									
None, Cover tapped for 1/4 NPT									0
1/4 NPT									1
1/2 NPT									2
Rc 1/4									3
Rc 1/2									4
1/2 Schedule 80 Welding Neck									6
Conduit Connection									
1/2 NPT Conduit Connection, Both Sides								1	
PG 13.5 Conduit Connection, Both Sides (available only with Electrical Safety Codes E & N)								2	
Electrical Safety (See Electrical Safety Specifications Section for Description)									
CENELEC Certified Intrinsically Safe, ia							E		
CENELEC Certified Flameproof, d							D		
CSA Certified, ia, d, and n							C		
EUROPEAN Ex, N, IIC. Nonsparking							N		
FM Approved, ia, d, and n							F		
SAA Certified, EEx, d, IIC							A		
Options									
Mounting Bracket Set									
Painted Steel Bracket with Plated Steel Bolts									M1
Stainless Steel Bracket with Stainless Steel Bolts									M2
Indicator with Internal Pushbuttons (Standard equipment on Electr. Version I)									
Digital Indicator, Pushbuttons, and Window Cover, for Electr. Version D & T only									L1
DIN 19213 Construction, used with Process Connector Code 0 and 316 ss Covers Only(b)									
Single Ended Process Cover with M10, B7 Steel Bolting									D1
Double Ended Process Cover with M10, B7 Steel Bolting (Blind Kidney Flange on Back)(c)(d)									D2
Single Ended Process Cover with 7/16 in, B7 Steel Bolting									D3
Double Ended Process Cover with 7/16 in, B7 Steel Bolting (Blind Kidney Flange on Back)(c)(d)									D4
Cleaning and Preparation									
Unit Degreased - (Not for Oxygen/Chlorine) (Available only with Structu-re Codes having Silicone)									X1
Cleaned and Prepared for Oxygen Service (Available only withStructure Codes having Flourinert and not available with carbon steel process covers)									X2
Cleaned and Prepared for Chlorine Service (Available only with Structure Codes having Flourinert and not available with carbon steel process covers) (Includes 17-4 ss bolts; do not specify option B2									X3
Bolting for Process Covers and Process Connectors									
316 ss Bolts and Nuts (Maximum upper range limit pressure 150 bar or 2175 psi)									B1
17-4 ss Bolts and Nuts									B2

(continued on next page)

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Model Codes IGP20 (continued)

Options (continued)	
Conduit Thread Adapters	
Hawke-Type 1/2 NPT Cable Gland (for use with 1/2 NPT Conduit Connection Code 1)	A1
Plastic PG 13.5 Connector (for use with PG 13.5 Conduit Connection Code 2) (available only with Electrical Safety Codes E & N)	A2
M20 Connector (for use with 1/2 NPT Conduit Connection Code 1)	A3
Electronics Housing Features	
External Zero Adjustment	Z1
Custody Transfer Lock and Seal	Z2
External Zero Adjustment and Custody Transfer Lock and Seal	Z3
Factory Configuration	
Digital Output (4 to 20 mA Default if not selected) (Electr. Version D only)	C1
Full Factory Configuration (Requires Configuration Form)	C2
Ermeto Connectors	
Steel, Connecting 6 mm Tubing to 1/4 NPT Process Connector	E1
Steel, Connecting 12 mm Tubing to 1/2 NPT Process Connector	E2
316 ss, Connecting 6 mm Tubing to 1/4 NPT Process Connector	E3
316 ss, Connecting 12 mm Tubing to 1/2 NPT Process Connector	E4
Miscellaneous Optional Selections	
Vent Screw In Side of Process Cover	V
Five Year Warranty	W
Supplemental Customer Tag	T

(a) Refer to PSS 2A-1Z9 E for option descriptions, and for additional optional features and accessories not listed in Model Code.
(b) See Functional Specifications section for pressure deratings when certain DIN 19213 versions are specified.
(c) Temperature limits derated to 0 and 60°C (32 and 140°F).
(d) Mounting Set option is not available.

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Model Codes IAP10

Intelligent Direct Connected Absolute Pressure Transmitter	**IAP10**						
Electronics Versions and Output Signal							
Digital FOXCOM or 4 to 20 mA dc, Software Selectable	-D						
Digital HART and 4 to 20 mA	-T						
4 to 20 mA Analog Output	-I						
Structure Code - Process Connection, Sensor, and Fill Fluid							
Process Connection Mat'l / Sensor / Fill Fluid							
316L ss / Co-Ni-Cr / Silicone. . Val. Pkg.		20					
316L ss / Co-Ni-Cr / Fluorinert		21					
316L ss / 316L ss / Silicone		22					
316L ss / 316L ss / Fluorinert		23					
Span Limits - Absolute or Gauge Pressure Units, as Applicable							
MPa / psi / bar or kg/cm²							
0.007 and 0.21 / 1 and 30 / 0.07 and 2.1			C				
0.07 and 2.1 / 10 and 300 / 0.7 and 21			D				
0.7 and 21 / 100 and 3000 / 7 and 210			E				
Conduit Connection							
1/2 NPT Conduit Connection, Both Sides				1			
PG 13.5 Conduit Connection, Both Sides (available only with Electrical Safety Codes E & N				2			
Electrical Safety (See Electrical Safety Specifications Section)							
CENELEC Certified Intrinsically Safe, ia					E		
CSA Certified					C		
EUROPEAN Ex, N, IIC. Nonsparking					N		
FM Approved					F		
SAA Certified, EEx, d, IIC					A		
Options							
Mounting Bracket Set							
Painted Steel Bracket with Plated Steel Bolts						M1	
Stainless Steel Bracket with 316 ss Bolts						M2	
Indicator with Pushbuttons (standard equipment on IGP10-I)							
Digital Indicator, Pushbuttons, and Window Cover (for Electr Version D & T only)						-L1	
Vent Screw and Block & Bleed Valve							
Vent Screw in Process Connection for IGP10/IAP10; or in High Side Process Cover for IGP20						V1	
Block and Bleed Valve, Carbon Steel						V2	
Block and Bleed Valve, 316 ss						V3	
Block and Bleed Valve, 316 ss Body w/Monel Trim (NACE Approved)						V4	
Conduit Thread Adapters							
Hawke-Type 1/2 NPT Cable Gland for use with Conduit Connection Code "1"						A1	
Plastic PG 13.5 Connector for use with Conduit Connection Code "2" (available only with Electrical Safety Codes E & N)						A2	
M20 Connector for use with Conduit Connection Code "1"						A3	
Electronics Housing Features							
External Zero Adjustment						Z1	
Custody Transfer Lock and Seal						Z2	
External Zero Adjustment and Custody Transfer Lock and Seal						Z3	
Factory Configuration							
Digital Output (4 to 20 mA Default if not selected)						C1	
Full Factory Configuration (Requires Configuration Form to be filled out)						C2	
Miscellaneous Optional Selections							
G 1/2 B Manometer Process Connection (Not Available with Option "-V1")						G	
R 1/2 Process Connection (1/2 NPT to R 1/2 Adapter)						R	
Five Year Warranty						W	
Supplemental Customer Tag (Stainless Steel Tag wired onto Transmitter)						T	

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