invensys
Foxboro

Gauge Selection Guide






Model	IGP10S	IGP10	IGP20	IGP25	IGP50	IGP60
Digital Output	HART	FoxCom, HART; FF.	FoxCom, HART; FF.	HART; FF.	HART; FF.	HART
4-20 mA Output	HART	FoxCom, HART	FoxCom, HART	HART	HART	HART
Analog Output	4-20 mA and 1 to 5 Vdc					4-20 mA
Remote Communication	FoxCom: I/A Series Workstation; PC-Based Configurator (FoxCom not support for the IGP10S) HART: HART Communicator; PC-Based Configurator FF: Fieldbus Host; PC-Based Configurator with a Foundation Fieldbus PWA.					-
Local Communication	Optional: LCD Indicator w/ Pushbuttons with FoxCom/HART/FF Transmitters (FoxCom not support for the IGP10S) Standard: LCD Indicator w/Pushbuttons with 4 to 20 mA/1 to 5 V dc Transmitters					Optional: LCD Indicator
Modular Design	Allows easy Migration between FoxCom, HART, FF, 4-20 mA dc, and 1 to 5 Vdc. (FoxCom not support for the IGP10S) Interchangeable Parts simplifies Spare Parts Inventories					-
Accuracy - Under Reference Operating Conditions in % of Calibrated Span	HART: ±0.050% 4 to 20 mA Analog: ±0.060%	FoxCom: +/- 0.075% HART: +/- 0.060%; FF: +/- 0.050% 4-20 mA Analog: +/- 0.20% 1 to 5 Vdc Analog: +/- 0.10%		HART, and FF: +/- 0.05%	HART, and FF: +/- 0.025%	HART ± 0.04%
Stability - Long Term Drift	Less than +/- 0.05% of URL per Year over a 5-Year Period			Less than +/- 0.02% of URL Per Year over a 5-Year Period		± 0.1% of URL per 10-year period.
Measurement Type	Silicone Strain Gauge Sensors - Successfully Field-Proven					
Sensor Material	316L ss, Hastelloy C	316L ss, Hastelloy C.	316L ss, Hastelloy C, Co-Ni-Cr, Monel, Tantalum, and 316 ss (Gold Plated)	316L ss	316L ss	316LSST, Hastelloy C
Sensor Fill Fluid	Silicone, Fluorinert	Silicone, Fluorinert	Silicone, Fluorinert	Silicone, Fluorinert	Silicone	Silicone, Fluorinert
Upper Range Limit - Maximum (b)	Three versions offered from 0.5 to 2000 psi (0.0034 to 13.8 MPa)	42 Mpa (6000 psi)	35 Mpa (5000 psi)	14 Mpa (2000 psi)	14 Mpa (2000 psi)	500 psig
Rangeability	400:1	30:1	30:1 to 60:1	400:1	80:1	200 to 1
Ambient Temperature	-29 to +82°C (-20 to +180°F) - Normal Operating Conditions **IPG60 Only:** -40 to 110°C (-40 to 230°F) - Normal Operating					
Process Temperature	-29 to +82°C (-20 to +180°F) - Normal Operating Conditions -46 and +121°C (-50 and +250°F) - Operative Limits with Silicone Fill -29 and +121°C (-20 and +250°F) - Operative Limits with Fluorient Fill **IPG60 Only:** -40 to 110°C (-40 to 230°F) - Normal Operating Conditions with Silicone Fill **IPG60 Only:** -20 to 75°C (-4 to 167°F) - Normal Operating Conditions with Fluorine Fill **IPG60 Only:** -50 and 115°C (-58 and 239°F)- Operative Limits with Silicone Fill **IPG60 Only:** -40 and 80°C (-40 and 176°F) - Operative Limits with Fluorine Fill					

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Supply Voltage	FoxCom Digital: Power Supplied through I/A Series System (FoxCom not support for the IGP10S) FF: 9 to 32 Vdc by a specific Foundatin Fieldbus Power Source HART and FoxCom 4-20 mA: 11.5 to 42 Vdc; a Minimum Output Load of 250 Ω is required 4-20 mA Analog Output: 11.5 to 42 Vdc 1 to 5 Vdc Analog Output: 9 to 15.5 Vdc					17.9 to 42V dc. Minimum Output Load of 250 Ω is required
Product Safety	ATEX, CSA, FM, IECEx, and PED					FM, CSA and ATEX IS and Explosionproof
Electronics Enclosure	IEC IP66 and NEMA 4X					
European Union Directives	CE Marked, EMC Directive 89/336/EEC; IEC Standards EN 50081-1, EN 50082-2, and IEC 61000-4-2 to 61000-4-6; and NAMUR NE 21 and NAMUR 105, as applicable					Complies with 89/336/EEC, 92/31/EEC, 93/68/EEC Electromagnetic Compatibility (EMC) Directive and Namur 43, as applicable
SIL-2 Applications	FMEDA Report Supports SIL-2			-	-	Supports SIL2-
Warranty	5-Years	5-Years	5-Years	5-Years Standard/17-Years Optional		
Special End Connections	Sanitary/Pulp/Paper Hi-Gauge Pressure		-	Sanitary/Pulp/Paper	-	-
Pressure Seals	Yes	Yes	Yes	Yes	Contact Foxboro	-
Bypass Manifolds	Yes	Yes	Yes	Yes	Yes	-
Specifications						
FoxCom		PSS 2A-1C13 C		PSS 2A-1C13 G	PSS 2A-1C13 H	
HART	PSS 2A-1C13 P C	PSS 2A-1C13 B		PSS 2A-1C13 G	PSS 2A-1C13 H	PSS 2A-1C18 B
FF		PSS 2A-1C13 E		PSS 2A-1C13 G	PSS 2A-1C13 H	
4-20 mA		PSS 2A-1C13 C		-	-	
1 to 5 Vdc		PSS 2A-1C13 D		-	-	
	(a) IGP10 = Gauge Pressure Transmitters; Direct Connected IGP20 = Gauge Pressure Transmitters; Bracket Mounted IGP25 = Gauge Pressure Transmitter; Multi-Range; Directed Connected IGP50 = Gauge Pressure Transmitters; Premium Performance; Direct Connected (b) Only the upper range limit is listed. URLs less than the Maximum vary depending on the Sensor selected.					