

Absolute Selection Guide



Model	IAP10	IAP20
Digital Output	FoxCom, HART; FF.	FoxCom, HART; FF.
4-20 mA Output	FoxCom, HART	FoxCom, HART
Analog Output	4-20 mA and 1 to 5 Vdc	
Remote Communication	FoxCom: I/A Series Workstation; PC-Based Configurator 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 Standard: LCD Indicator w/Pushbuttons with 4-20 mA/1 to 5 Vdc Transmitters	
Modular Design	Allows easy Migration between FoxCom, HART, FF, 4-20 mA dc, and 1 to 5 Vdc. Interchangeable Parts simplifies Spare Parts Inventories	
Accuracy - Under Reference Operating Conditions in % of Calibrated Span	FoxCom: +/- 0.075% HART: +/- 0.060%; FF: +/- 0.050% 4-20 mA Analog: +/- 0.20% 1 to 5 Vdc Analog: +/- 0.10%	
Stability - Long Term Drift	Less than +/- 0.05% of URL per Year over a 5-Year Period	
Measurement Type	Silicone Strain Gauge Sensors - Successfully Field-Proven	
Sensor Material	316L ss, Hastelloy C.	316L ss, Hastelloy C, Co-Ni-Cr, Monel, Tantalum, and 316 ss (Gold Plated)
Sensor Fill Fluid	Silicone, Fluorinert	Silicone, Fluorinert
Upper Range Limit - Maximum (b)	21 MPa (3000 psi)	21 Mpa (3000 psi)
Rangeability	30:1	30:1 to 60:1
Ambient Temperature	-29 to +82°C (-20 to +180°F) - Normal Operating Conditions	
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 Fluorinert Fill	
Supply Voltage	FoxCom Digital: Power Supplied through I/A Series System 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	

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Model	IAP10	IAP20
Product Safety	ATEX, CSA, FM, IECEx, and PED	
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	
SIL-2 Applications	FMEDA Report Supports SIL-2	
Warranty	5-Years	5-Years
Special End Connections	Sanitary/Pulp/Paper Hi-Gauge Pressure	-
Pressure Seals	Yes	Yes
Bypass Manifolds	Yes	Yes
Specifications		
FoxCom		PSS 2A-1C13 C
HART		PSS 2A-1C13 B
FF		PSS 2A-1C13 E
4-20 mA		PSS 2A-1C13 C
1 to 5 Vdc		PSS 2A-1C13 D
(a) IAP10 = Absolute Pressure Transmitters; Direct Connected IAP20 = Absolute Pressure Transmitters; Bracket Mounted		
(b) Only the upper range limit is listed. URLs less than the Maximum vary depending on the Sensor selected.		