

## Differential Selection Guide



Model	IDP10	IDP25	IDP50	IDP15D (Draft Range)	IDP31D (Fast Response Transmitter)	IDP32D
Digital Output	FoxCom, HART, FF	FoxCom, HART, FF	FoxCom, HART, FF	HART	HART	HART
4-20 mA Output	FoxCom, HART, FF	FoxCom, HART, FF	FoxCom, HART, FF	HART	HART	HART
Analog Output	4-20 mA and 1 to 5 Vdc	-	-	4-20 mA	4-20 mA	4-20 mA
Remote Communication	FoxCom: I/A Series Workstation; PC-Based Configurator. HART: HART Communicator; SDC 625 Compliant PC-Based Configurator. FF: Fieldbus Host; PC-Based Configurator with a FOUNDATION Fieldbus Interface and FF Hand-held Configurator.			HART: HART Communicator; SDC 625 Compliant PC-Based Configurator.		
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.			Two-way communication using HART protocol facilitates self-diagnosis, range re-setting, automatic zero/span adjustment, and other operations.		
Modular Design	Allows easy Migration between FoxCom, HART, FF, 4 to 20 mA dc, and 1 to 5 Vdc. Interchangeable Parts simplifies Spare Parts Inventories			Only available in HART		
Accuracy - Under Reference Operating Conditions in % of Calibrated Span	FoxCom: $\pm 0.05\%$ HART: $\pm 0.060\%$ FF: $\pm 0.05\%$ 4-20 mA Analog: 0.20% 1 to 5 Vdc Analog: $\pm 0.10\%$	FoxCom, HART, and FF: $\pm 0.05\%$	FoxCom, HART, and FF: $\pm 0.025\%$	HART: 0.15%	HART: 0.04%	HART: 0.04%
Stability - Long Term Drift	Less than $\pm 0.05\%$ of URL over a 5-year period.	Less than $\pm 0.02\%$ of URL over a 5-Year Period.		$\pm 0.1\%$ of URL over a 10-year period.		
Measurement Type Differential Pressure	Silicone and Fluorinert	Silicone and Fluorinert	Silicone	Silicone	Silicone and Fluorinert	Silicone and Fluorinert
Sensor Material	316L ss, Hastelloy C, Co-Ni-Cr, Monel, Tantalum, and 316L ss (Gold Plated)	316L ss and Hastelloy C	316L ss and Hastelloy C	316SST	316SST Hastelloy C	316SST
Sensor Fill Fluid	Silicone and Fluorinert	Silicone and Fluorinert	Silicone	Silicone and Fluorine (for Oxygen Service)	Silicone and Fluorine (for Oxygen Service)	Silicone and Fluorine (for Oxygen Service)
Upper Range Limit - Maximum (b)	21 MPa (3000 psi)	250 kPa (1000 inH <sub>2</sub> O)	14 MPa (2000 psi)	4" H <sub>2</sub> O	400" H <sub>2</sub> O	400" H <sub>2</sub> O

## Differential Selection Guide



Model	IDP10	IDP25	IDP50	IDP15D (Draft Range)	IDP31D (Fast Response Transmitter)	IDP32D
Rangeability	30:1 and 60:1	400:1	80:1	20:1	200:1	200:1
Ambient Temperature	-29 to +82°C (-20 to +180°F) - Normal Operating Conditions			With and Without LCD -15 to 65°C (5 to 150°F) NORMAL OPERATING CONDITIONS	Without LCD -15 to 85°C (5 to 185°F) With LCD -15 to 80°C (5 to 176°F) NORMAL OPERATING CONDITIONS	With and Without LCD -15 to 85°C (5 to 185°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			Silicone Fill -15 to 65°C (5 to 150°F) Flourine Fill -15 to 65°C (5 to 150°F)	Silicone Fill -15 to 110°C (5 to 230°F) Flourine Fill -20 to 75°C (-4 to 167°F)	Silicone Fill -15 to 110°C (5 to 230°F) Flourine Fill -15 to 75°C (5 to 167°F)
Supply Voltage	FoxCom Digital: Power Supplied through I/A Series System  FF: 9 to 32 Vdc by a specific Foundation Fieldbus Power Source  HART and FoxCom 4-20 mA: 11.5 to 42 Vdc; a Minimum Output Load of 250 Ω is required when a PC-Based Configurator/Communicator is connected to Transmitter; 4-20 mA Analog Output: 11.5 to 42 Vdc 1 to 5 V dc Analog Output: 9 to 15.5 Vdc			HART 4-20mA: 17.9 to 42V DC. For communication with HART communicator or CommPad, a load resistance of 250 Ω or more is necessary.		
Product Safety	ATEX, CSA, FM, IECEx			FM, and ATEX IS and Explosionproof	FM and ATEX IS and Explosionproof	FM and ATEX IS and Explosionproof
Electronics Enclosure	IEC IP66 and NEMA 4X			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, as applicable			EMC Directive 89/336/EEC and 93/68/EEC Electromagnetic Compatibility (EMC) Directive PED Conformity (97/23EC) NAMUR NE43 Compliant		

# Differential Selection Guide



Model	IDP10	IDP25	IDP50	IDP15D (Draft Range)	IDP31D (Fast Response Transmitter)	IDP32D
SIL-2 Applications	Complies with IEC61508, certified according to Safety Integrity Level2 (SIL-2) TUV SUD	-	-	Complies with IEC61508, certified according to Safety Integrity Level2 (SIL-2) TUV SUD		
Warranty	5-Years	5-Years Standard/17-Years Optional		2 Years		
Transmitter Structures	Traditional and Low Profile (Coplanar™)			Traditional		
Pressure Seals	Yes	Yes	Yes	No		
Bypass Manifolds	Yes	Yes	Yes	No	No	No
Specifications						
FoxCom	<a href="#">PSS 2A-1C14 A</a>	<a href="#">PSS 2A-1C14 K</a>	<a href="#">PSS 2A-1C14 L</a>			
HART	<a href="#">PSS 2A-1C14 B</a>			<a href="#">PSS 2A-1C17 A</a>	<a href="#">PSS 2A-1C17 A</a>	<a href="#">PSS 2A-1C17 A</a>
FF	<a href="#">PSS 2A-1C13 E</a>					
4-20 mA	<a href="#">PSS 2A-1C14 C</a>	-				
1 to 5 Vdc	<a href="#">PSS 2A-1C13 D</a>	-				

10 = Differential Pressure Transmitter; Bracket Mounted  
 IDP25 = Differential Pressure Transmitter; Multi-Range; Bracket Mounted  
 IDP50 = Differential Pressure Transmitter; Premium Performance; Bracket Mounted  
 (b) Only the Maximum Upper Range Limit is listed. URLs less than the Maximum vary depending on the Sensor Selected  
 (Applies to IDP10, IDP25 and IDP50 only.)