

по вопросам продаж и поддержки обращайтесь:

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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 ₂ O) | 14 MPa (2000 psi) | 4" H ₂ O | 400" H ₂ O | 400" H ₂ O |

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|---------------------------|---|-------|-------|--|--|---|
| 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 | | |

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| 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 |

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