

Model
InstaTrans-XD
Oxygen Transmitter



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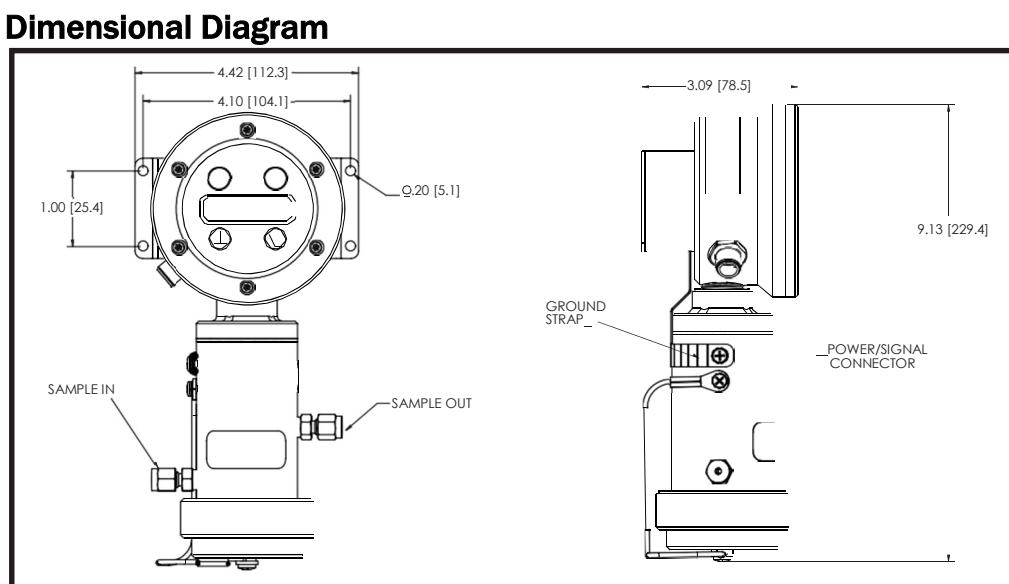
InstaTrans-XD - Oxygen Transmitter

The flexibility, simplicity and robustness of the proven universal InstaTrans Oxygen Transmitter is carried on to the next-generation Model InstaTrans-XD. The new platform continues to offer the benefits of the legacy transmitter, including:

- 2-wire transmitter form factor
- Trace or percent oxygen analysis – settable ranging from 0 – 10 ppm to 0 – 25 %
- Insta-trace capability for fast recovery from new sensor installation (optional)
- Accepts most Teledyne industrial micro-fuel cells
- Intrinsically safe design for hazardous area or non-hazardous installations

The InstaTrans-XD utilizes a design to meet the requirements of NEMA-4 (IP-66) levels of ingress protection with wetted 316SS cell compartment body and fittings.

Dimensional Diagram



Teledyne offers custom sample systems and integration services to meet adverse process and ambient conditions!

The transmitter head contains the electronics and user display interface including 4-button design to access functions.

A fully upgraded microprocessor-based platform gives the InstaTrans-XD a more compact, single PCB design to simplify maintenance and reduce shelf spares. Unlike the legacy model with fixed ranges, the new interface allows for a fully settable single range from 0 – 10 ppm to 0 – 25 %. New advanced functions are also available as standard including 4 – 20 mA output adjustment to optimize signal output and cold boot capability as a beneficial troubleshooting tool.

The InstaTrans-XD incorporates intrinsically safe design to meet ATEX Zone 0 / 1 / 2 and FM / FMc Class I Div 1 approvals when used with select intrinsic safety barriers. Additionally, the CSA approval extends to Class I Div 2 as a non-incentive device without the use of barriers. FM approval is pending at this time.



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Fittings (all 316SS)

- Standard - 1/8" tube fitting
- 1/4" tube fitting
- No fitting - 1/8" FNPT thread

Insta-trace for Fast Initial Recovery

- Non Insta-trace
- Insta-trace

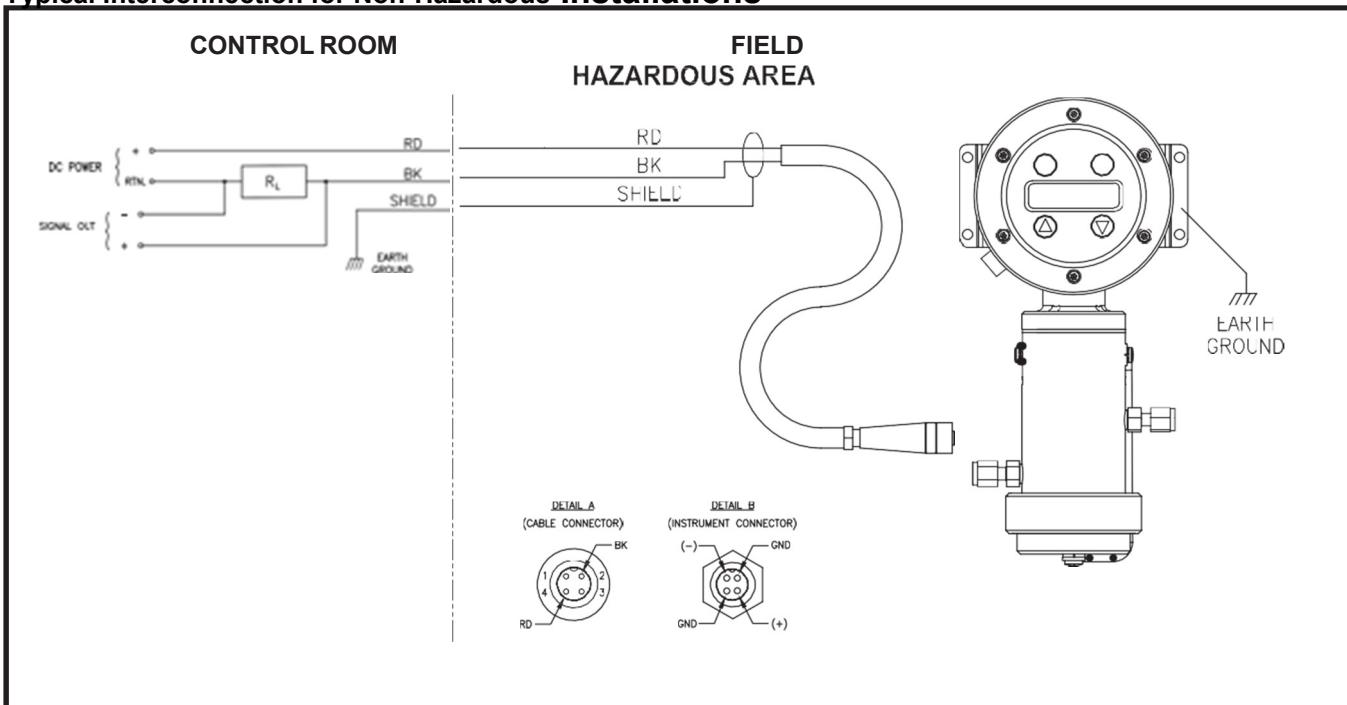
Typical Interconnection for Non-Hazardous Installations

Typical Interconnection for Intrinsically Safe Installations

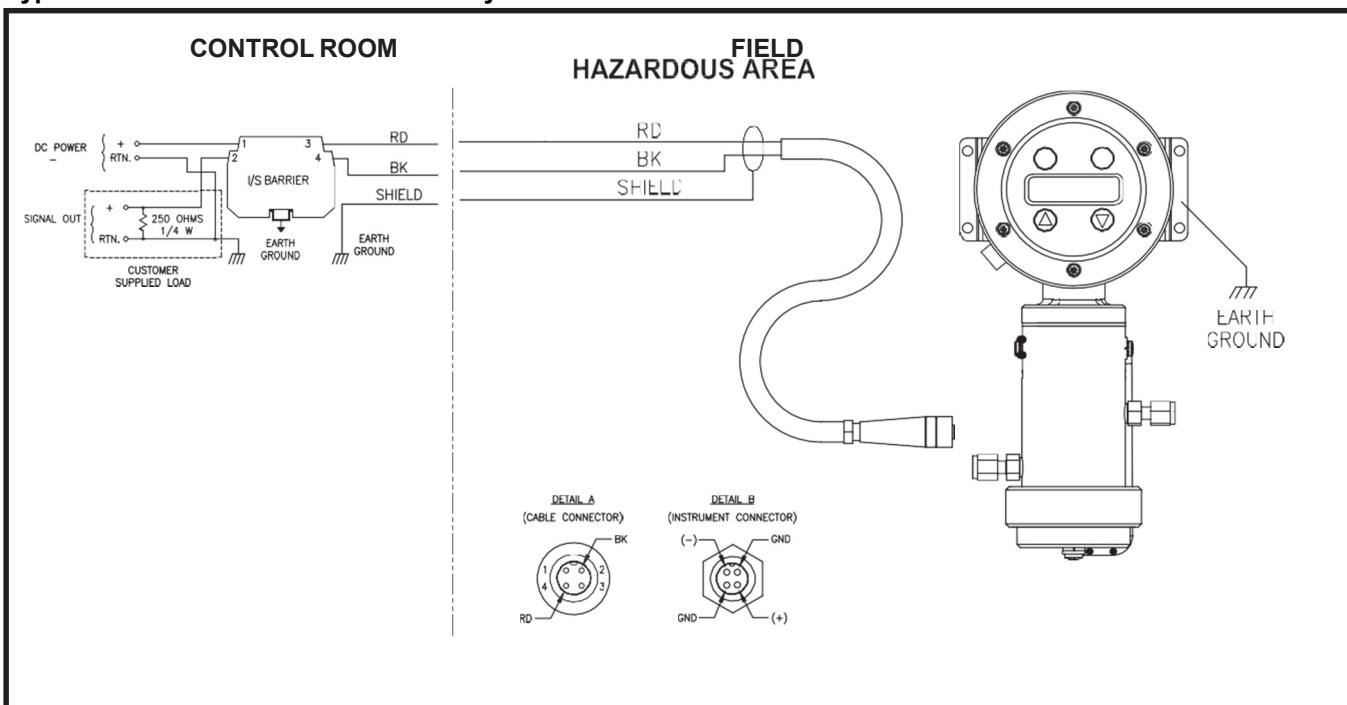
O-ring Seals

- Standard -Viton®
- Buna-n
- Kalrez®
- EPDM
- EPR
- Neoprene
- Chemraz®

Typical Interconnection for Non-Hazardous Installations



Typical Interconnection for Intrinsically Safe Installations



SPECIFICATIONS	
Ranges	Single-range, user-settable, 0 – 10 ppm to 0 – 25 %
Micro-Fuel Cells	Trace O ₂ , general service: Class B-2C
	Trace O ₂ , % CO ₂ present: Class A-2C
	Insta-trace, general service: B71875 Insta-trace
	Insta-trace, % CO ₂ present: B73016 Insta-trace
	Percent O ₂ , general service: Class B-1 / B-1C
	Percent O ₂ , % CO ₂ present: Class A-5 / A-5C (special configuration)
Approvals/Standards	Baseefa 12ATEX0114X IECExBAS 12.0078X Ex II 1GEx ia IIC T4 Ga CE 1180 (when wired as per D86181 diagram) FM / FMc Class I Div 1 Gp A-D T4 when wired as per D86181 diagram – pending FM / FMc Class I Div 2 Gp A-D T4 – pending EN 60079-0: 2012 IEC 60079-0: 2011 EN 60079-11:2012 IEC 60079-11: 2011
Operating Temperature	32 – 122 °F (0 – 50 °C)
Accuracy	±1 % of full-scale operating range (±1 ppm below 0 – 100 ppm range)
Response Time (T90)	15 seconds (40 seconds below 0 – 100 ppm range)
Recommended Flow Rate	1 – 2 SCFH (0.5 – 1 SLPM)
Display	4.5-digit LCD
Power	9 – 24 VDC, loop-powered
Output	Loop 4 – 20 mADC
Cable	2-conductor shielded, 22 AWG wires, 24 inches (610 mm) length
Weight	Approximately 6 pounds



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