

Model

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

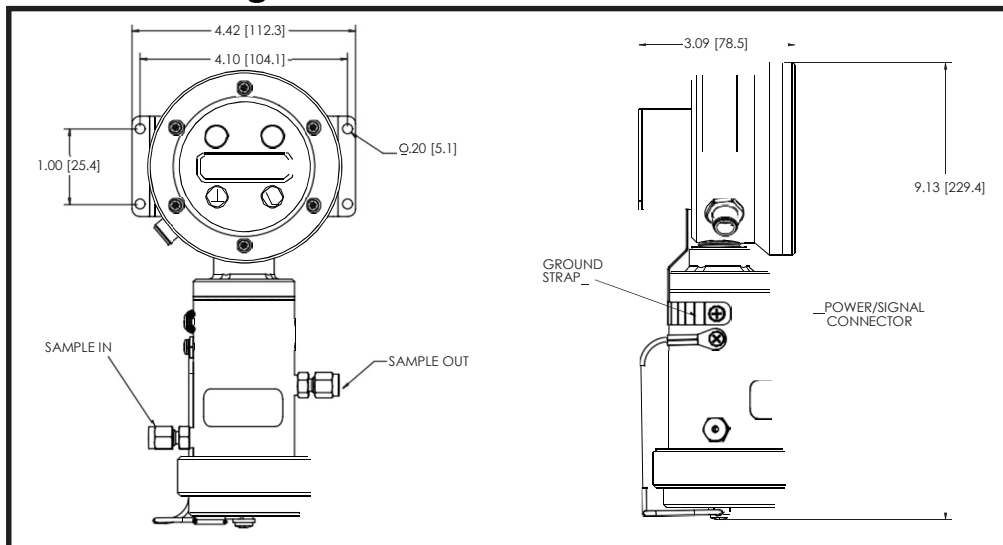
sensor installation (optional)

- 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

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.



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

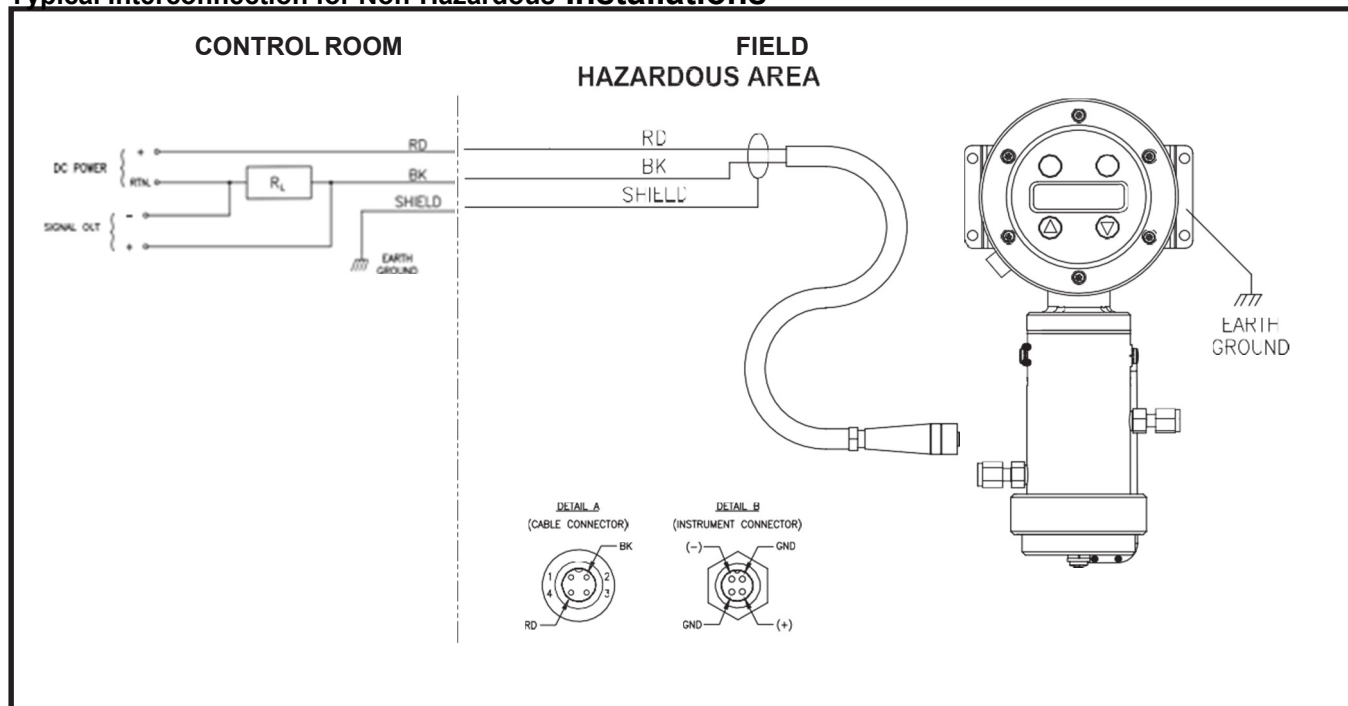
Typical Interconnection for Non-Hazardous Installations

Typical Interconnection for Intrinsically Safe Installations

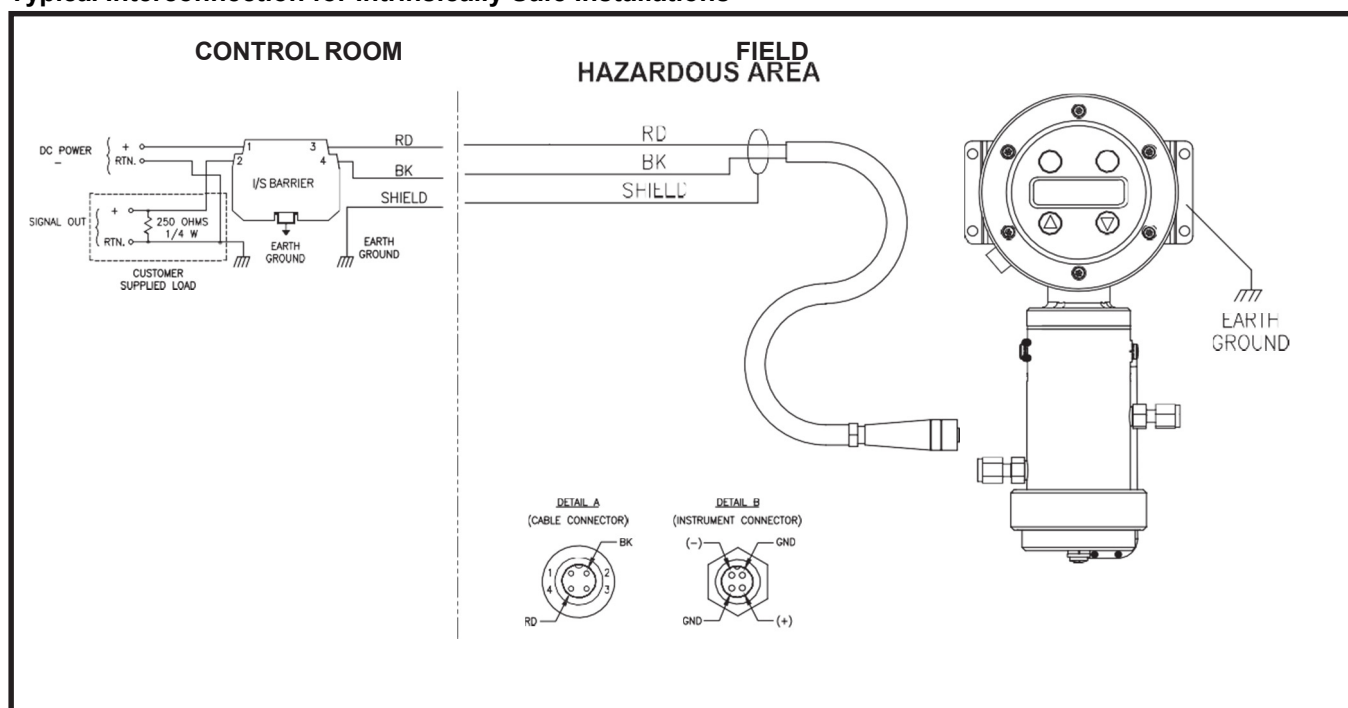
O-ring Seals

- 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 Ⓔ 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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