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**ANALYTICAL INSTRUMENTS**  
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Model

# InstaTrans-XD

Oxygen Transmitter



## 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

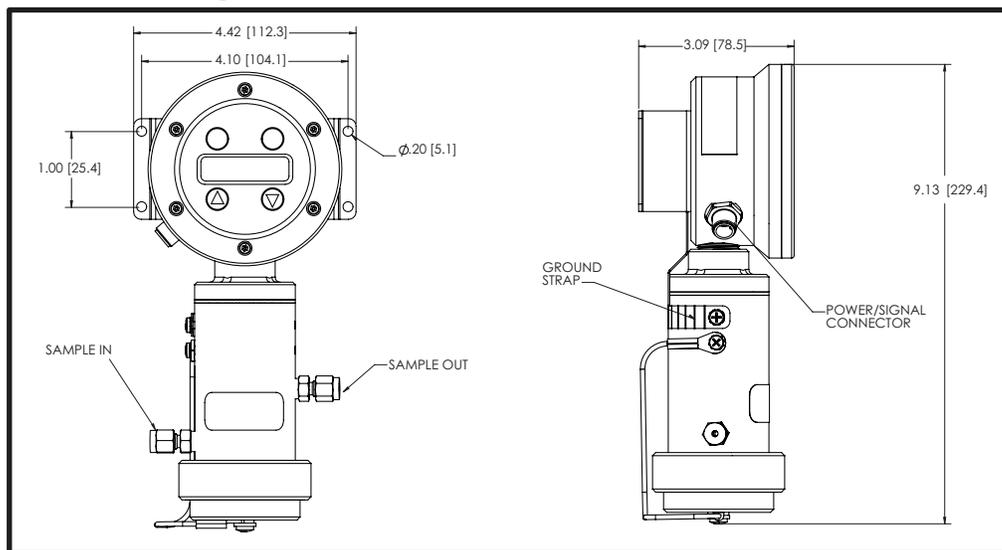
The InstaTrans-XD utilizes a design to meet the requirements of NEMA-4 (IP-66) levels of ingress protection with wetted 316SS cell compartment body and fittings. The transmitter head contains the electronics

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 4-20mA 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-incendive device without the use of barriers. FM approval is pending at this time.

### Dimensional Diagram



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



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## Fittings (all 316SS)

- Standard - 1/8" tube fitting
- 1/4" tube fitting
- 6mm tube fitting
- No fitting - 1/8" FNPT thread

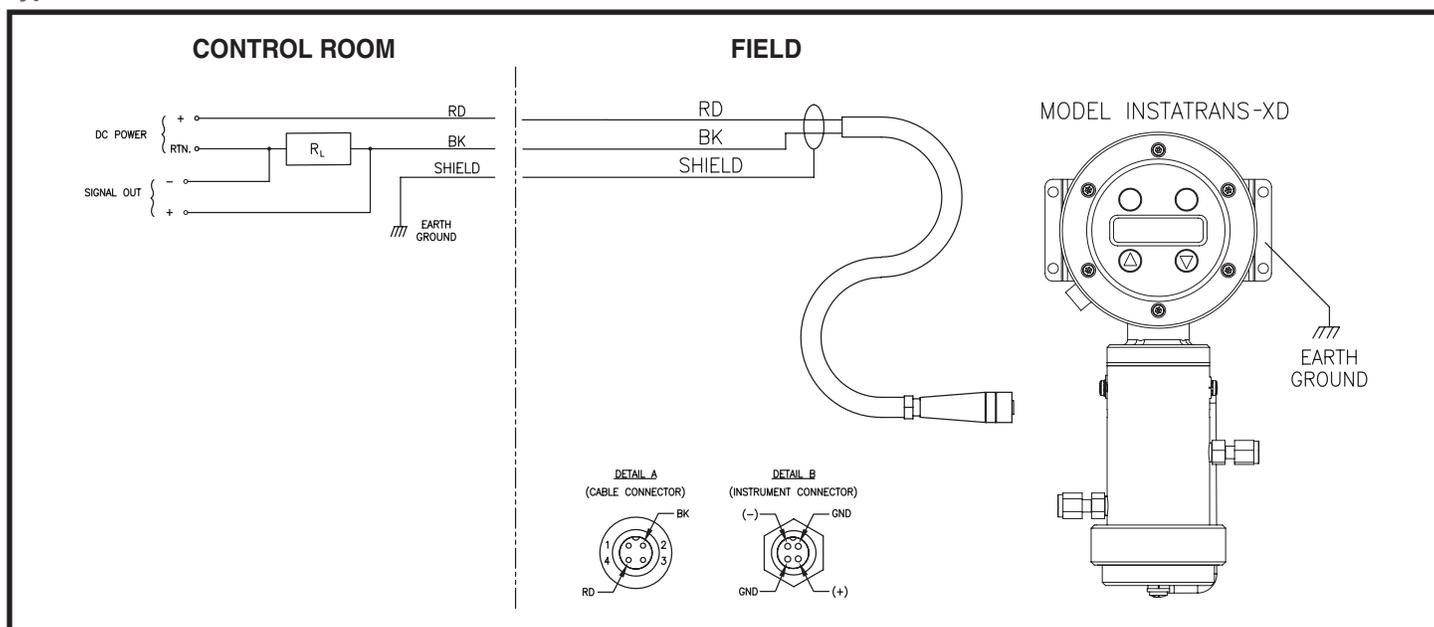
## Insta-trace for Fast Initial Recovery

- Non Insta-trace
- Insta-trace

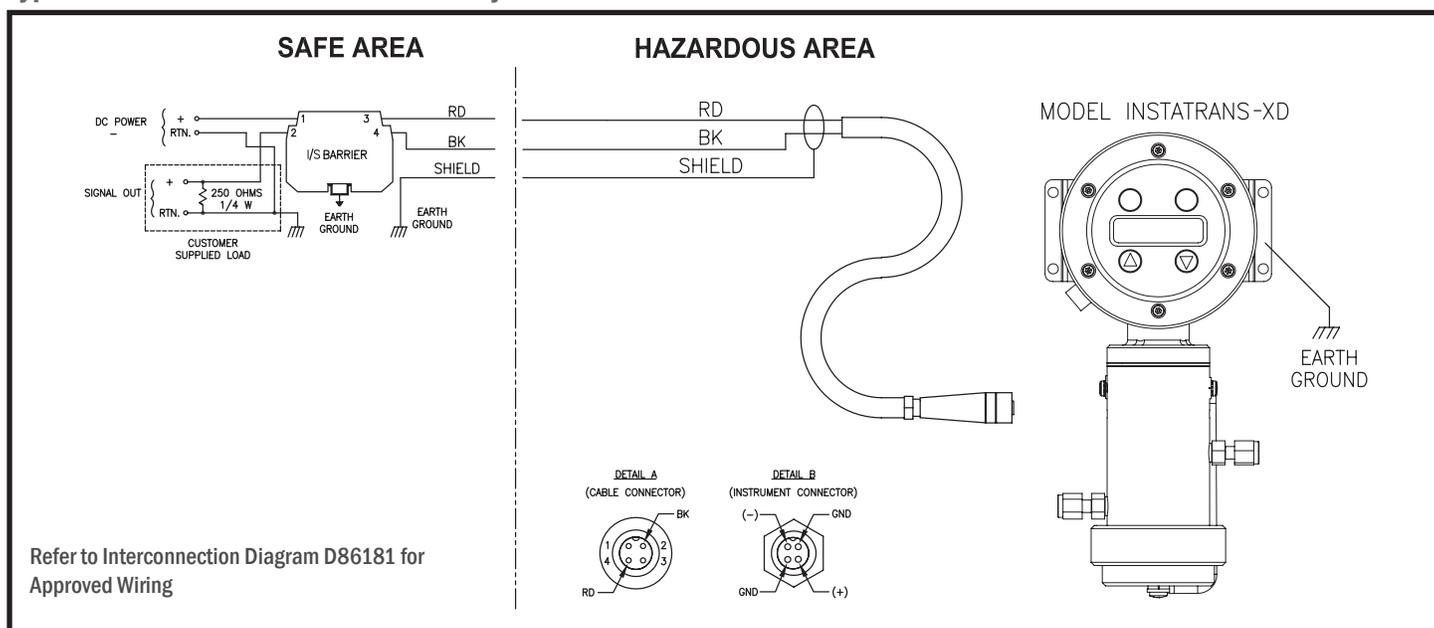
## O-ring Seals

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

### Typical Interconnection for Non-Hazardous Installations



### Typical Interconnection for Intrinsically Safe Installations



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SPECIFICATIONS	
<b>Ranges</b>	Single-range, user-settable, 0-10 ppm to 0-25%
<b>Micro-Fuel Cells</b>	Trace O2, general service: Class B-2C
	Trace O2, %CO2 present: Class A-2C
	Insta-trace, general service: B71875 Insta-trace
	Insta-trace, %CO2 present: B73016 Insta-trace
	Percent O2, general service: Class B-1 / B-1C
	Percent O2, %CO2 present: Class A-5 / A-5C (special configuration)
<b>Approvals/Standards</b>	Baseefa 12ATEX0114X IECExBAS 12.0078X  II 1G Ex 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
<b>Operating Temperature</b>	32 - 122°F (0 - 50°C)
<b>Accuracy</b>	±1% of full-scale operating range (±1 ppm below 0-100 ppm range)
<b>Response Time (T90)</b>	15 seconds (40 seconds below 0-100 ppm range)
<b>Recommended Flow Rate</b>	1 - 2 SCFH (0.5 - 1 SLPM)
<b>Display</b>	4.5-digit LCD
<b>Power</b>	9 - 24 VDC, loop-powered
<b>Output</b>	Loop 4-20 mADC
<b>Cable</b>	2-conductor shielded, 22 AWG wires, 24 inches (610 mm) length
<b>Weight</b>	Approximately 6 pounds



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#### Warranty

Instrument is warranted for one year against defects in material or workmanship

**NOTE:** Specifications and features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. All specifications and features are subject to change without notice.

