

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

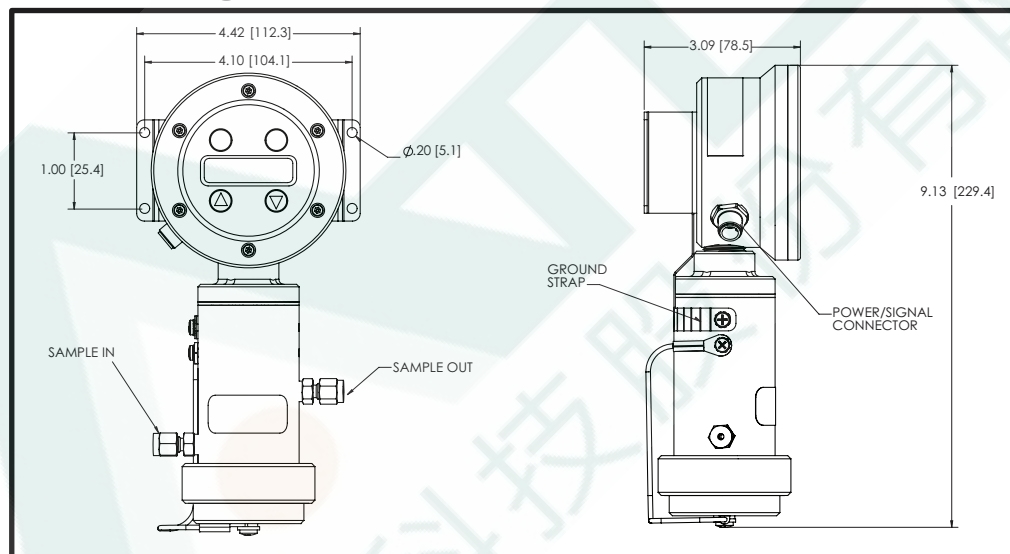
The InstaTrans-XD utilizes a design to meet the requirements of NEMA-4 (IP-66) levels of ingress protection with wetted 316SS cell compartment body and fittings. The transmitter head contains the electronics

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

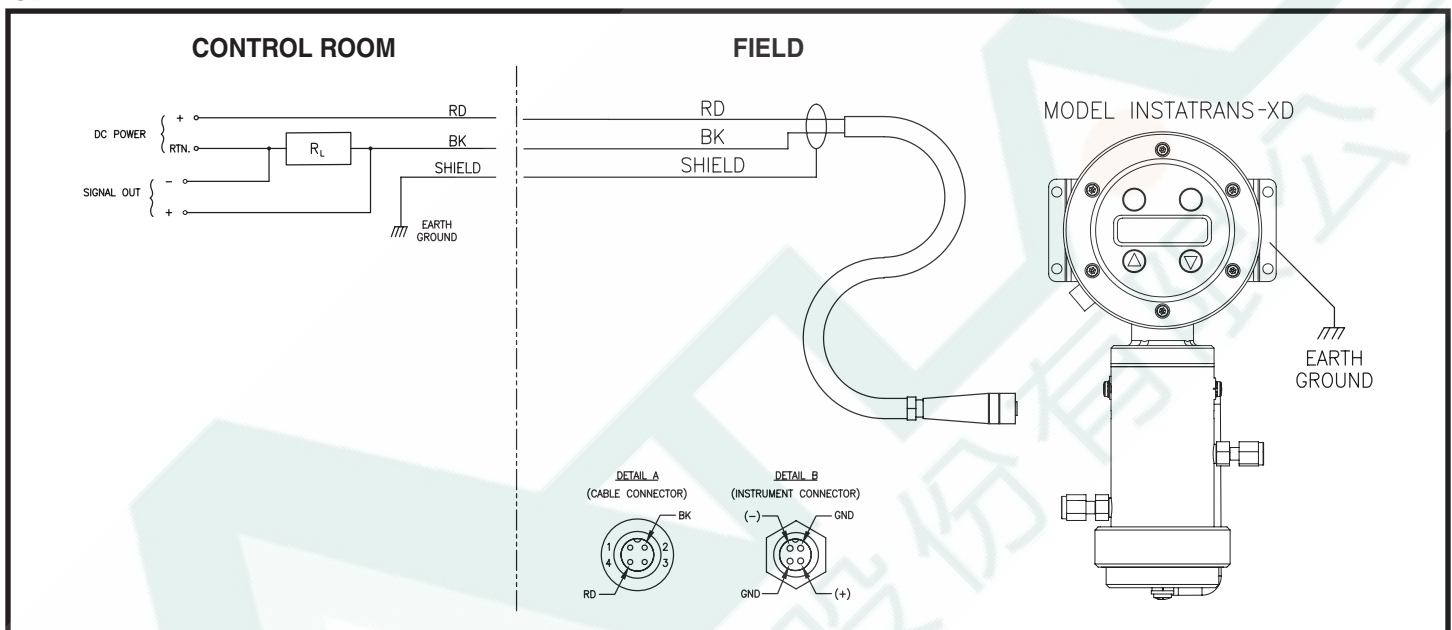
## Insta-trace for Fast Initial Recovery

- Non Insta-trace
- Insta-trace

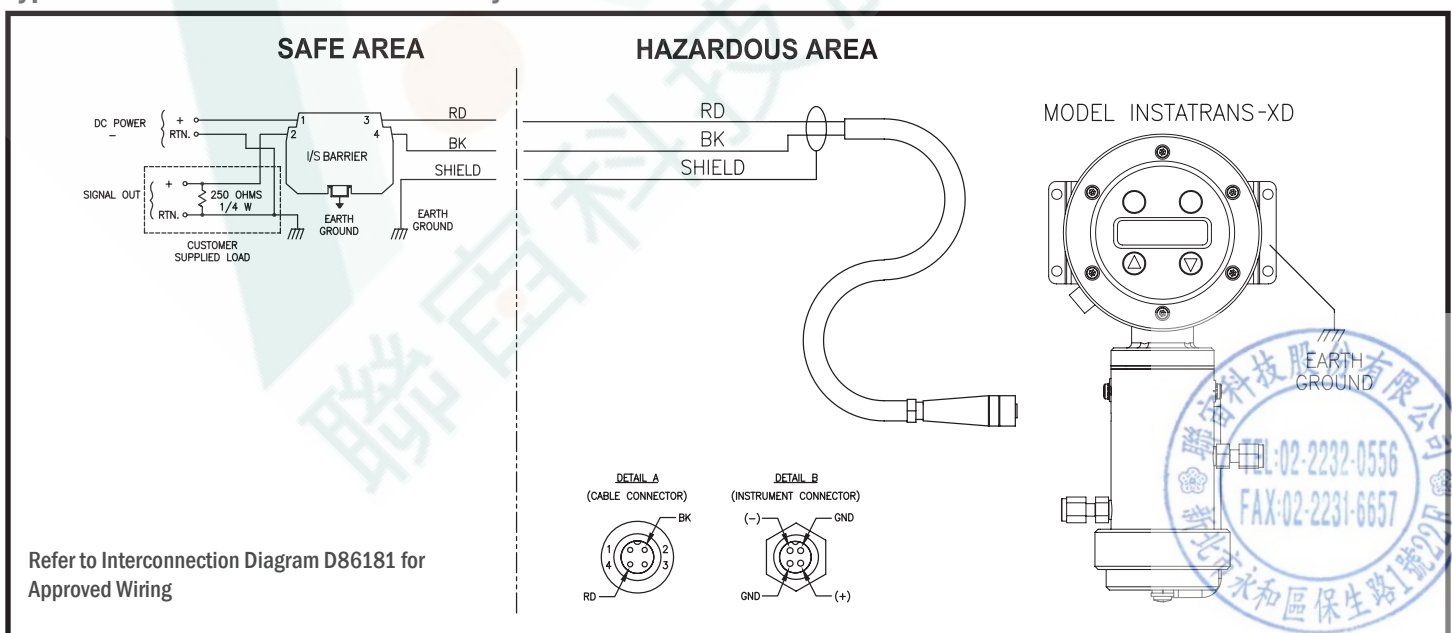
## O-ring Seals

- 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 <div> <div>Ex</div> <div>II 1G</div> </div> 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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