

TruDO Transmitter

The TruDO® Transmitter is designed for accurate measurement of dissolved oxygen (DO) using traditional polarographic sensors. These units feature full text prompts, menu driven configuration, large backlit LCD display, isolated 4-20 mA outputs, and HART communications.



Physical Description

Case Material	ABS
Rating	NEMA 4X/CSA 4 (IP 65)
Dimensions	6.0"x 6.0"x 4.0" (155x155x100 mm)
Mounting	Remote, panel or pipe mounted
Conduit Openings	Accepts Pg 13.5 conduit fittings
Display	16 character, two line, back-lit

Specifications

Power	12–42 VDC
Output	Isolated 4–20 mA
Operating Temperature	0–50°C (32–122°F)
Storage Temperature	-20–70°C (-4–158°F)
Relative Humidity	10–90% (non-condensing)
Analog Output Signal	Two wire, 4–20 mA output Fully scalable over sensor range
Output Accuracy	+/- 0.05 mA
Measurement Range	0-20 ppm (mg/L), or equivalent partial pressure or % saturation (limited by sensor)
Units	ppm, ppb, % saturation, partial pressure (mmHg, inHg, atm, mbar, bar, kPa)
Resolution	4 digits. Temperature resolution: 0.1°C (≤99.9°C); 1°C (≥100°C)
Input ranges	0–330 nA, 0.3–4µA, 3.7–30 µA, 27–100 µA
Repeatability (input)	±0.1% of range
Linearity (input)	±0.3% of range
Temperature range	0–100°C (0–150°C for steam sterilizable sensors)
Temperature accuracy using RTD	±0.5°C between 0 and 50°C, ±1°C above 50°C
Temperature accuracy using 22k NTC	±0.5°C between 0 and 50°C, ±2°C above 50°C
HART Communications	PV, SV, TV, and 4V assignable to DO, temperature, and sensor current
RFI/EMI	EN-50081/EN-50082
Weight/Shipping Weight	Approximately 3 lb (2 kg)
Warranty	Every TruDO Transmitter is warranted for one full year (12 months) from date of shipment against defects in material and workmanship

DO Transmitter

TXM-DOS-ANH-PNL	Remote, panel mounted
TXM-DOS-ANH-PIP	Remote, pipe mounted

Features

- Ease of use
- Full text prompts
- Large backlit LCD display
- Isolated 4–20 mA output and HART communications
- Pipe or panel mounted

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