



## Dissolved Oxygen Transmitter, Analyzer and Controller

### DOTX441



- ✓ Analyzer/Transmitter/Controller
- ✓ NEMA 7X (IP68)
- ✓ Galvanic Cell for PPB
- ✓ Self-Guided Menu
- ✓ Automatic Calibration and Check
- ✓ ON/OFF/PWM Control
- ✓ Programmable Transmitter Output
- ✓ RS485 Output, in MODBUS®

The DOTX441 dissolved oxygen analyzer is supplied in a compact cast aluminum case. SAE 323, with low oxidation grade, anticorrosion treatment and finished with electrostatic epoxy paint. The DOTX441 is compact, light weight, rugged and IP68 rated. The units include local display, transmitter output and controller function all programmed via a 3-button side panel with an easy self guided menu.

The DOTX441 can be mounted on a 51 mm (2") tube or flat surface. Electrical connections are on the terminal bar located in the back housing of the instrument with cable entrance through two cable compression fittings of 13 mm (½") BSP. Common applications include food and drink, pulp and paper, chemical, sanitation, water and wastewater treatments.

### Specifications

**Case Cast:** Aluminum SAE 323

**Finishing:** Electrostatic epoxy paint

**Electrical Connection Connector Bar:** Conexell type

**Cable Inlet Cable Knockout:** 13 mm (½") (2 x)

**Assembly:** 51 mm (2") tube or flat surface

**Enclosure:** NEMA 7X (IP68)

**Power Consumption:** 3.5 VA

**Weight:** 1.9 kg (4.3 lb)

**Electrical Power:** 90 to 240 Vac (50/60 Hz)

**Working Temperature:** 5 to 40°C (41 to 104°F)

**Relative Humidity:** 20 to 80%

**Analyzer/Transmitter**

**Display Alphanumeric:** 2 lines x 16 characters

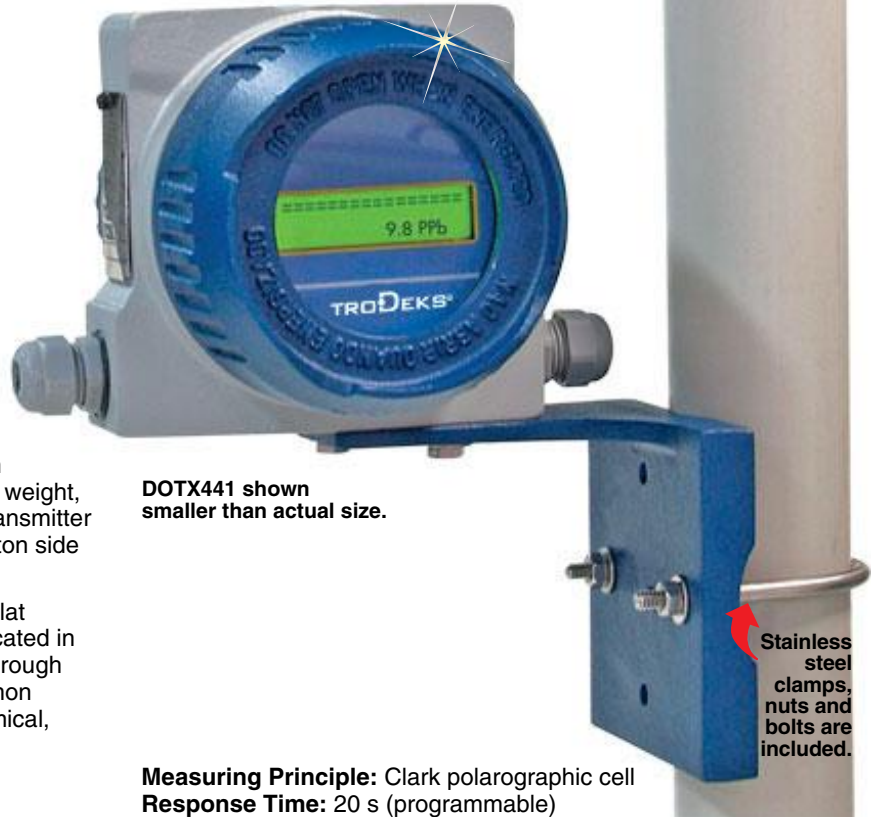
**Range:** 0 to 60 mgO<sub>2</sub>/L

**Resolution:** 0.1 or 0.01

**Relative Precision:** 0.02% (full scale)

**Working Temperature:** 50°C (122°F)

**Auto Temperature Compensation:** 50°C (122°F)



DOTX441 shown smaller than actual size.

**Measuring Principle:** Clark polarographic cell

**Response Time:** 20 s (programmable)

**Barometric Pressure Compensation:**

Up to 10.000 m

**Signal Output Analogic:** 4 to 20 mA with

programmable output range for all reading range

**Galvanic Isolation:** 2000 Vac (by opto coupler)

**Line Resistance:** 1 kΩ

**Controller**

**Actuation Type Frequency:** Modulation, P+D

**Set-Points:** 2 independent from 0 to 100% of scale

**Outputs:** 2 control ON/OFF, programmable for alarm or actuation P+D

**Control for Automatic Cleaning:** Timer ON/OFF, for periods up to 99 seconds, and in intervals up to 99 hours

**Type Immersion:** Body material polypropylene (PP) or 316 SS (others upon request)

**Maximum Temperature:** 50°C (122°F) @ 1 ATM

**Body Length:** 1.5 m (59") (standard)

**Auto Cleaning System:** Activated by a solenoid valve

### To Order

Model No.	Description
DOTX441	Dissolved oxygen analyzer, transmitter and controller (cell sold separately)
DOE-441	Dissolved oxygen cell in a polypropylene body
DOE-441-S	Dissolved oxygen cell in a stainless steel body
DOE-441-R	Replacement dissolved oxygen sensor for DOE-441 cell
DOM-441	Replacement cell maintenance kit
DOA-21RS	Sensor refill solution

Comes complete with 304 SS clamps with nuts and bolts for mounting and operator's manual. Cell sold separately.

**Ordering Example:** DOTX441, dissolved oxygen analyzer, transmitter and controller and DOE-441, dissolved oxygen cell in a polypropylene body.