

DISSOLVED OXYGEN TRANSMITTER

BDOT105

- Input signal from probes type INGOLD or compatible
- Temperature compensation input
- Built-in source for probe polarization voltage
- Rechargeable battery for probe polarization voltage
- Current or voltage output signals
- Digital display option



BDOT105 is an panel mount electronic transmitter for dissolved oxygen measurement. It converts the signal from a standard probe for dissolved O2 made by INGOLD or compatible. The transmitter provides the polarization voltage necessary for probe operation and performs the measurement temperature compensation using the signal from the built-in thermistor. The output is a standard voltage or current signal allowing connection of any standard control, data logging, or indication device. An optional digital display may be fitted for indication of measured dissolved oxygen value in % and a keyboard for indication calibration. BDOT105 has a built-in rechargeable battery for constant maintaining of probe polarization even when power supply is absent. A front panel switch may turn off the polarization voltage. The transducers of dissolved oxygen BDOT105 are used when dissolved oxygen has to be measured by standard (low-cost) indicators, data loggers, and controllers. The fields of application include biotechnological, chemical, food, etc. industries, and research.

TECHNICAL SPECIFICATIONS

Input: From probe type INGOLD or

compatable : 0 to100,0 %

Temp compensation : NTC22k Ω

Range : 0 to 70,0°C

Range

Output : 4-20, 0-20mA, 0-2VDC or custom

Display

Evaluate State State

Supply : 110, 230 VAC 50/60 Hz or 12 to 24VDC

Ambient temp : 0 to +60°C RH 10-85%

Mounting : Panel

Wiring : Screw terminals
Housing : IP44
Battery : 3 years min

Size : H96 x W48 x D120mm

Weight : 350g

INSTALLATION

Supply : 110, 230 VAC 50/60 Hz or

12 to 24VDC

Ambient temp : 0 to 60°C

Humidity : 0-85%

Dimension: H96 x W48 x D120mm

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Weight : 350g



PERFORMANCE (% of span)

EMC : EN 50081-1, EN 50082-2,

EN 61010-1, 8



ORDER INFORMATION BDOT105

SUPPLY PROBE OUTPUT ISOLATION

Z Specify Z Specify X No Isolation
A 230VAC A Sensorex E 0-20mA I Isolated output

No. DS12:6-Elssue: 524/09/13

B 110VAC B Ingold F 4-20mA R 24VAC H 0-2VDC

Q 12-24VDC Isolated PROTECTION

X None P IP65 front

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