

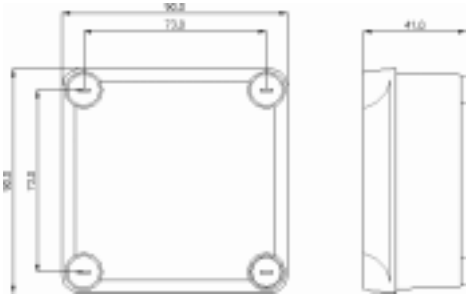
Operating Instructions

Thank you for purchasing the Oakton dissolved oxygen Transmitter

1 Description of Unit

The Transmitter is used for the continuous measurement of DO from 0 to 200% saturation. Data output is via 4-20 mA current output. The Transmitter is housed in a IP65 enclosure, with openings for input and 4-20mA output.

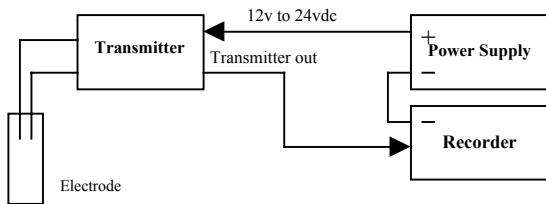
2 Diagram and Dimensions



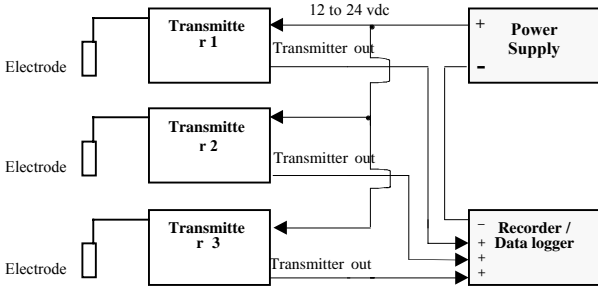
All dimensions in mm

3 INSTALLATION

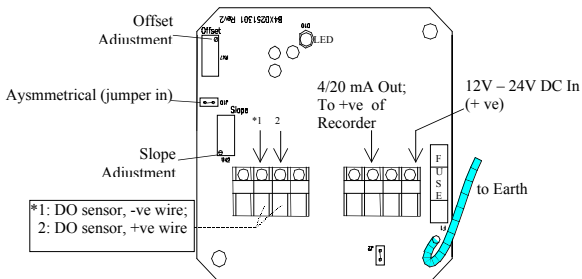
3.1 Operating with only one Transmitter:



3.2 Operating with several Transmitters:



3.3 Dissolved Oxygen Transmitter Electrical Connections



3.4 Dissolved Oxygen Transmitter Calibration

Remove cover of Transmitter and ensure that electrode is correctly connected as explained in Section 3.3. Connect Amp meter to the 4/20mA output of Transmitter (see below).

- Short Dissolved Oxygen input and observe Amp meter display;
- Amp meter should read 4mA; if not, calibration is necessary;
- Locate "Offset adjustment" trimmer;
- Using a fine screwdriver, slowly turn trimmer till Amp meter reads 4mA;
- For greater accuracy, adjust the slope using Air as a reference;
- Hold the dry probe in Air;
- In 100% Saturation (in Air), output is 12 mA;
- In 200% Saturation, output is 20 mA;
- Using a fine screwdriver, slowly turn trimmer, marked 'Slope', till Amp meter reads correct mA value with respective Oxygen Saturation levels.

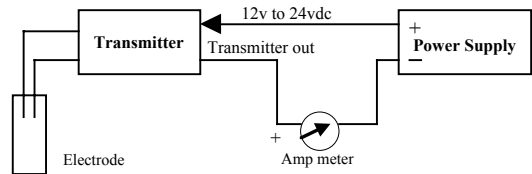
Remember to disconnect Amp meter and close cover.

NB: For other % Saturation values, expected current output is based on:

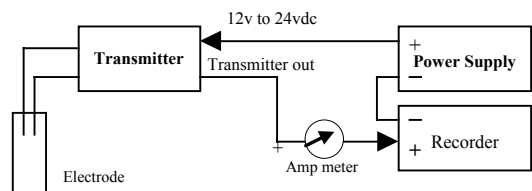
$$mA = \{(16/200) \times \text{Saturation of Dissolved Oxygen}\} + 4mA$$

3.5 Connecting Amp Meter for Calibration

Method I



Method II



4 Dissolved Oxygen Transmitter, Specifications

Model	WD-35151-00
Range	0 to 200 %
Accuracy	± 1.5 % Full Scale
Calibration	2 point Slope & offset (100% air saturation)
Input	Only with Galvanic D.O. probe
Output	4-20 mA
Operating Voltage	DC 12 V to 24 V
Load	100 Ohms max. for 12 V; 600 Ohms max. for 24 V
Housing	77 x 77 x 28 mm, field mountable