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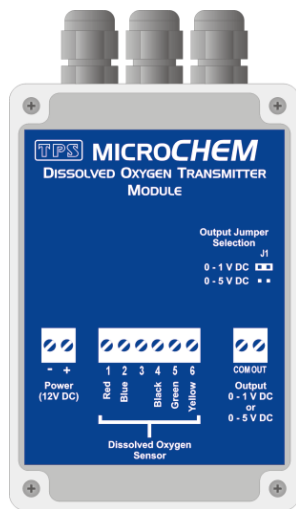
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microCHEM-DO2

TPS Australia - Quality hand-made instruments since 1968.

microCHEM Dissolved Oxygen Transmitter



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The all-new **microCHEM** series are a simple, no fuss solution for many water quality monitoring applications. With industry-standard 0 to 1 V DC and 0 to 5 V DC outputs, they are designed specifically to interface with commercial dataloggers and PLC units.

All **microCHEM** units are easy to install. The enclosure is waterproof to IP65, so a separate cabinet is not required. Waterproof cable glands are provided for the input and output cables.

The **microCHEM** series is the best value range of water quality transmitter available today. They are ideal for environmental monitoring, cooling tower control, and any industrial site utilising centralised control systems.

- ◆ **Waterproof Enclosure**
- ◆ **Requires 12V DC power**
- ◆ **Low power consumption - less than 10 mA**
- ◆ **Easy to Install**
- ◆ **Easy to Use**
- ◆ **User-selectable for 0 to 1 V DC or 0 to 5 V DC Outputs**
- ◆ **Australian Made**

The **microCHEM** series is an excellent solution for Original Equipment Manufactures (OEM's) who wish to incorporate water quality monitoring into their own designs. Over 30 years experience in this industry ensures that the **microCHEM** series provide accuracy and reliability without the OEM needing to spend any time or money on R & D.

For even greater output flexibility, ask about the **420 ToolBox**. This module provides such features as reversing the voltage signal, 4 - 20 mA output, control relay, RS232 interface or pulsed output.

The **microCHEM** series is proudly designed and manufactured in Australia. The TPS Quality System has been certified in accordance with AS/NZS ISO9001 standards. You can always be assured of the best

Specifications

Ranges

0 to 200.0 % Saturation
or
0 to 20.00 ppm (mg/L)

Ranges selectable by jumper setting.

Resolution

0.1% of full scale

Accuracy

+/-0.2% of full scale

Linearity

+/-0.1% of full scale

Repeatability

+/-0.2% of full scale

Ambient Drift

<0.05% span/°C

Long Term Drift

<0.2% per year

Temperature Compensation

Dual automatic temperature compensation system, 0 to 50 °C (sensor limit).

Zero Range

+/-10%

Span Range

70 to 130%

Sensor

Polarographic sensor with inbuilt ATC sensor.
Factory set for TPS ED1M or EDYSI dissolved oxygen sensor.

Enclosure

Polycarbonate, waterproof to IP65

Outputs

0 to 1 V DC
0 to 5 V DC
(selectable by jumper setting)

Isolation

Galvanic isolation of sensor input

Power

12V DC, approx 10 mA

Dimensions

Enclosure : 125 x 85 x 56 mm
PCB only : 115 x 77 mm
(82 x 58 mm mounting hole centres)

Mass

Instrument only : Approx 250 g
Full Kit : Approx 1.0 kg

Instrument Operating Environment

Temperature : 5 to 45 °C
Humidity : 0 to 95% R.H.

Ordering Information

Part No

microCHEM-Dissolved Oxygen.....113144

Kit Includes:

Handbook.....130050

TPS ED1M sensor (submersible to 3m max):

ED1M DO₂ Sensor, NO CABLE.....123440
5m cable for ED1M.....123236
Extended cable/metre.....130040

TPS EDYSI sensor (submersible to 60m max):

EDYSI DO₂ Sensor, NO CABLE.....123204
5m cable for EDYSI.....123210
Extended cable/metre.....130040



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[Download the handbook for this instrument.](#)

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If you do not have Adobe Acrobat in your computer, a free Acrobat Reader can be downloaded by clicking on the following link.



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Version 2.0

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Send mail to tps@tps.com.au with questions or comments about this web site.

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