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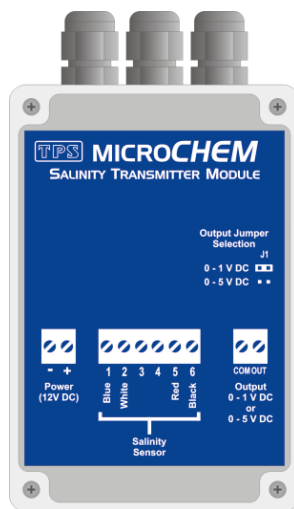
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microCHEM-Salinity

TPS Australia - Quality hand-made instruments since 1968.

microCHEM TDS / Salinity 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 Manufacturers (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

Specifications

Ranges

k=0.1 Sensor....0 to 10.00 ppM
 0 to 100.0 ppM
 0 to 1000 ppM
k=1.0 Sensor....0 to 100.0 ppM
 0 to 1000 ppM
 0 to 10.00 ppK
k=10 Sensor.....0 to 1000 ppM
 0 to 10.00 ppK
 0 to 100.0 ppK

Ranges selectable by jumper setting.

Resolution

0.1% of full scale

Accuracy

+/-0.2% of full scale

Linearity

+/-0.05% of full scale

Repeatability

+/-0.05% of full scale

Ambient Drift

<0.02%/°C

Long Term Drift

<0.1% per year

Temperature Compensation

Automatic, 0 to 100°C

Zero Range

+/-5%

Span Range

70 to 130%

Sensors

Platinised Platinum,
k=0.1, k=1.0 or k=10

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 750 g

Instrument Operating Environment

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

Ordering Information

Part No

microCHEM-Salinity/TDS.....112146

Kit Includes:

Handbook.....130050

Conductivity standard to suit customer-specified range.

Conductivity sensors:

k=0.1 Sensor, 5m cable.....112205

k=1.0 Sensor, 5m cable.....112206

k=10 Sensor, 5m cable.....112207

Extended cable/metre.....130040



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

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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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