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# microCHEM-Temp



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TPS Australia - Quality hand-made instruments since 1968.

## microCHEM Temperature Transmitter



[Full Size Image](#)

- ◆ **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 all-new **microCHEM** series are a simple, no fuss solution for many water quality monitoring applications. With industry-

The **microCHEM** series is an excellent solution for Original Equipment Manufacturers (OEM's) who wish to incorporate water quality monitoring into their applications. Our 20 year

## microCHEM-Temp

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.

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.

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 quality, service and value for money.

## Specifications

### **Range**

0 to 200 °C  
(sensor limit 120 °C)

### **Resolution**

0.1% of Full Scale

### **Accuracy**

+/-0.2% of full scale

### **Linearity**

+/-0.1 °C

### **Repeatability**

+/-0.1 °C

### **Ambient Drift**

<0.02% Span/°C

### **Long Term Drift**

<0.1% per year

### **Common Mode Rejection**

120 dB

### **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  
centred)

## microCHEM-Temp

±0.1% per year

centies)

### Zero Range

+/-10 °C

### Span Range

95 to 105%

### 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

#### 5 metre bundle 111144/5:

microCHEM-Temperature 5m.....114144/5

#### Kit Includes:

Submersible Temp Sensor, 5m cable.....114200

Manual.....130050

#### Options and Accessories

##### Cable Extension:

Extended cable/metre.....130040

#### Same Price Interchange Option:

##### Screw-in Temperature Sensor (1/4" BSP thread):

Screw-in Temp Sensor, 5m cable.....114201

Screw-in adaptor for 40mm/50mm PVC pipe.....111305



[Download this Specification Sheet in PDF format.](#)



[Download the full colour microCHEM Series Brochure \(1.59 MB PDF\).](#)



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

**Hint :** Right click on a link, then select "Save Target As..." or "Save Link As..." to save the file to your own computer.

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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*TPS reserves the right to change any part of this specification without notice.*

*Version 2.0*

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