



# WaterTechw<sup>2</sup> TMP

## Temperature Sensor - Portable Use

PRODUCT DATASHEET

### APPLICATIONS

Mixed Liquor  
Aeration Basin  
Oxidation Ditch  
Effluent Discharge

### MEASUREMENT PRINCIPAL

Solid State Temperature Sensor with inherent stability over time

### BENEFITS

Automated Aeration Control  
Recording of Low Temperature in Final Effluent

### FEATURES

No need for user calibration Small, Robust Packaging

### COMPATIBLE MONITOR

750w<sup>2</sup> Monitor



The WaterTechw<sup>2</sup> TMP Temperature Sensor is a precision device which offers breakthrough performance over a wide industrial temperature range. Designed for use between -5°C and +80°C with a measurement accuracy of +/- 0.3°C. The internal temperature sensor has a high accuracy and linearity over the entire rated temperature range, without the need for correction or calibration by the user.

The detector within the TMP sensor consists of a metal heat conducting cylinder containing, an internal band gap reference, a temperature sensor and a 16-bit analog-to-digital converter. The result is a robust, accurate, easy to use and stable ultra low temperature drift measurement. The detector tip is incorporated into a black acetal housing.

The TMP sensor has been factory calibrated, no further calibration is required. The TMP sensor requires very little maintenance, no special tools or training is required and installation is quick and simple.

Temperature measurement in wastewater applications provides an important supplement to measurements such as Suspended Solids and Turbidity. In Activated Sludge, temperature can be related to the ability of the biological treatment system to cope with varying loads. In Final Effluent many discharge consents are waived when the temperature reaches a low level of around 4°C and by using a verifiable temperature measurement device such as the WaterTechw<sup>2</sup> TMP the operator can avoid issues with regulators.

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### Physical

Dimensions  
Weight  
Protection Class  
Enclosure Material  
Cable Entries  
Cable Type  
Cable Length

18 mm diameter x 152 mm long  
0.15 kg (Including 5 metres of cable)  
IP68  
Black Acetal Copolymer  
Integral Cable Gland  
4 core, ModTechw<sup>2</sup> Data/Power, Polyurethane Coated  
5 metres standard, 100 metres maximum

### Service Requirement

None

### Environmental Data

Operating Temperature

-5 to 80°C

### Interface to Monitor

Power Supply  
Sensor Output

12 VDC from Monitor  
ModTechw<sup>2</sup>, RS485

### Measurement

Range  
Accuracy  
Pressure (Depth) Rating

-5 to 80°C / 23 to 176 °F  
+/-0.3°C  
1 Bar

### Order Codes

#### Part No Description

229439 WaterTechw<sup>2</sup> TMP  
Temperature Sensor  
For 750w<sup>2</sup> Monitor  
(Range:-5 to 80°C,  
Cable Length: 5  
metres)

229393 WaterTechw<sup>2</sup> TMP  
Temperature Sensor  
For 750w<sup>2</sup> Monitor  
(Range:-5 to 80°C,  
Cable Length: 10  
metres)

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The company reserves the right  
to alter the specification without  
prior notice. E&OE

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