



WaterTechw² TMP

Temperature Sensor

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

7300w² Monitor



The WaterTechw² 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 WaterTechw² TMP the operator can avoid issues with regulators.

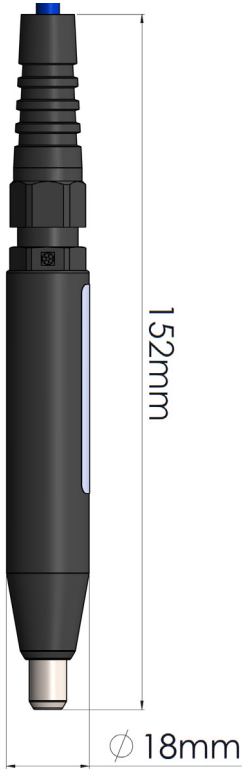
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Physical

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

18 mm diameter x 152 mm long
0.43 kg (Including 10 metres of cable)
IP68
Black Acetal Copolymer
Integral Cable Gland
4 core, ModTechw² Data/Power, Polyurethane Coated
10 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
ModTechw², 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

227071 WaterTechw² TMP
Temperature Sensor
(Range:-5 to 80°C,
Cable Length:
10 metres)

Publication No: 227071DS-Iss03

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

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