

EWSA Series

Rugged, Weatherproof Temperature Sensors and Transmitters

INSTRUCTION
SHEET

M5732/0119

1.0 Description

The EWSA air temperature sensors are designed for wall or pipe mounting in harsh indoor or outdoor environments.

A rugged 6mm diameter sheathed RTD probe is housed in the center of a 12.7 mm dia. outer protection tube. The RTD sensor terminal block or optional transmitter are housed in a tough aluminum alloy enclosure, rated to IP65.

An M20 cable gland is fitted to the left hand side of the enclosure, suitable for cables from 2.5 to 6.5 mm diameter.

2.0 Receiving and Unpacking

Please inspect the packaging and sensor thoroughly for any signs of transit damage. Please notify Omega customer service if any damage is found.

3.0 Specifications

Dimensions:

Box: 80 W x 75 H x 58 mm D

Sensors: 75 mm long x 12.7 mm O.D

Cable Entry: M20 gland for 2.5 to 6.5 O.D cable

EWSA-Pt100 Sensor Only Model:

Sensor Type:

- Pt100 class A 4-wire standard
- Pt1000 on request

Ambient Temperature Range:

- 50 to 100°C

Electrical Connection:

Screw terminal block

EWSA-Pt100-TX:

Ambient Temperature Range:

-40 to 85°C at 10 to 90% RH non condensing

Standard Transmitter Scaling:

4 mA at -25°C, 20 mA at 75°C

Electrical Connection:

Screw terminals, 2-wire

Power Supply:

10 to 30Vdc, loop powered

Power Supply:

$[(V \text{ supply} - 10) / 20]$ KΩ. eg. 700Ω @ 24V



4.0 Mechanical Installation

The EWSA has been designed for wall or pipe mounting. For wall fixing the drilling dimensions are provided on the base of the enclosure.

5.0 Electrical Installation

For the EWSA-Pt100-TX temperature sensor with transmitter please refer to the transmitter manual M4561 for wiring and scaling information. The standard EWSA-Pt100 model features a 4 way screw terminal block for connection to the 4-wire Pt100 sensor.

