NEWPORT®

Economical Environmental Temperature, Humidity and Barometric Pressure Wall Mount Sensors
EWS

Features

- ✅ **Thermocouple, RTD or Thermistor Sensor Models**
- ✅ **Temperature, Temperature / Humidity and Barometric Pressure Transmitter Models**
- ✅ **Low-Cost Miniature Design**
- ✅ **Connects to Computer, Datalogger, or Industrial Controller/Meter**

NEWPORT's low cost environmental wall mount sensors keep your office, computer room or laboratory looking great.

They are compatible with process meters, controllers, recorders, data loggers and data acquisition systems.

Thermocouple, RTD and Thermistor models come with 1 m (40") leads.

Temperature, Temperature/ Humidity and Pressure units come with user selectable industry standard 4 to 20 mA or 1 to 5 Vdc output.

ENVIRONMENTAL WALL SENSOR
MODEL NO.
EWS-TX
MADE IN U.S.A.

1 YEAR WARRANTY   CE

NEWPORT PRODUCT INFO
● **MANUAL - EWS-TC/RTD/TH/MB PDF Version** 📄
● **MANUAL - EWS-BP PDF Version** 📄
● **MANUAL - EWS-RH PDF Version** 📄
● **MANUAL - EWS-TX PDF Version** 📄
● **PRICE**
📄 REQUIRES ADOBE ACROBAT - HELP

Specifications

Thermocouple - EWS-TC-* Sensors
Max. Temperature: 60°C (140°F)
Accuracy: ±1.1°C (1.98°F)
Sensor Types: J,K,T,E
Sensor Lead Length: 1m (40")
Lead Material: 24 AWG, PFA coated

RTD Sensor - EWS-RTD
Max. Temperature: 60°C (140°F)
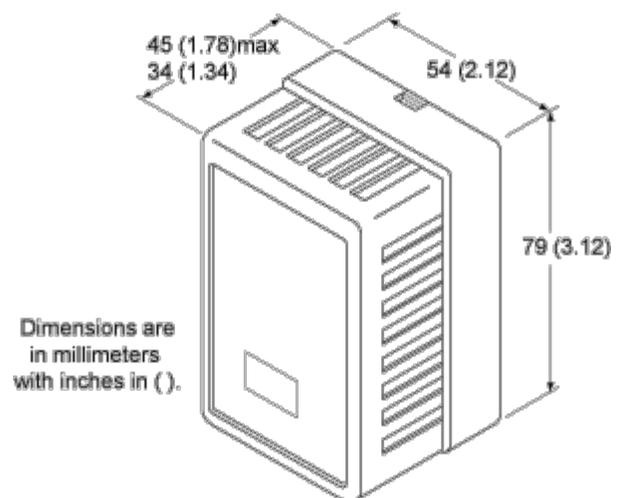**Accuracy:** ±1°C (1.8°F)
Sensor Type: 100 Ohm Pt. 0.00385
Sensor Lead Length: 1m (40")
Lead Material: PFA insulated 3-conductor 26 AWG stranded Nickel-plated Copper

Thermistor Sensor - EWS-TH
Max. Temperature: 60°C (140°F)
Accuracy: ±0.2°C (0.36°F)
Sensor Type: OMEGA® "400" Series 2252 ohm @ 25°C
Sensor Lead Length: 1m (40")
Lead Material: PVC insulated 2-conductor 22 AWG stranded Nickel-plated Copper

Temperature Transmitter - EWS-TX
Temperature Range: -18 to 57 °C (0 to 135°F)
Accuracy @ 25°C:
In Still Air: ±0.7°C (±1.2°F) @ 25°C; 1.4°C (±2.5°F) across full range
In Moving Air: ±1.4°C (±2.5°F) @ 25°C; ±1.7°C (±3°F) across full range
Note: Not recommended for fast moving air applications
Repeatability: ±0.3°C (±0.5°F)
Output: 4 to 20 mA or 1 to 5 Vdc (scaled across range)
Temp Time Constant: (for 63.2% response); 9 sec. in moving air (1M/sec.); 30 sec. in still air
Power: 8 to 18 Vdc @ 20 mA
Max. Loop Resistance: Ohms = (V supply - 8V)/0.02 A
Sensor Type: Solid State

Temperature/Humidity Transmitter - EWS-RH
Range: 5 to 95% (non-condensing)
Accuracy: From 5 to 20%, ±4% RH; From 20 to 80%, ±3%RH From 80 to 95%, ±4%RH
Repeatability: ±1%RH
Output: 4 to 20 mA or 1 to 5 Vdc (scaled for 0 to 100% RH)
Power: 8 to 24 Vdc @ 20 mA
Max. Loop Resistance: Ohms = (V supply - 8V)/0.02 A
RH Time Constant: 100 sec., from 20 to 90%, 60 sec from 90 to 20%
Sensor Type: Thin-film polymer capacitor (see Temperature Transmitter for temperature specifications)

Barometric Pressure Transmitter - EWS-BP-A
Pressure Range: 20.8 to 32 inHg (10.2 to 15.7 psi)
Temperature Compensation: across full range
Accuracy: ±1% of span @ 25°C (77°F) plus ±0.11%/°C (0.06%/°F)
Operating Temperature Range: 0 to 60°C (32 to 140°F)
Output: User selectable 4 to 20 mA, 1 to 5 Vdc
Power: 8 to 24Vdc @ 20 mA
Max. Loop Resistance: Ohms = (V supply -8 V)/.020 A
Media Compatibility: Clean dry air, non-corrosive gases

Mechanical
Enclosure Material: Valox 364 PBT or
Acrylonitrile Butadlene Styrene
Dimensions: 79 x 54 x 34 (or 45) mm
(3.12 L x 2.12 W x 1.34 (or 1.78" H)

Note: The EWS Series is for indoor applications only. They are not designed to be exposed to rain, snow or other extreme weather conditions.

45 (1.78)max
34 (1.34)
54 (2.12)
79 (3.12)
Dimensions are in millimeters with inches in ( ).

Model No.	Description
EWS-TC-(*)	Wall Mount thermocouple sensor
EWS-RTD	Wall Mount RTD sensor (100 Ω Pt, 0.00385)

EWS-TH	Wall Mount 400 series thermistor sensor
EWS-TX	Wall Mount temperature transmitter
EWS-RH	Wall Mount temperature/humidity transmitter
EWS-BP-A	Wall Mount barometric pressure transmitter
EWS-MB	Conduit box mounting bracket/wall plate adapter kit
PSR-24S	Regulated power supply, 24Vdc, 400mA, screw terminal
PSR-24L	Regulated power supply, 24Vdc, 400mA, stripped leads, UL
PSR-24L-240	Regulated power supply, 24Vdc, 400mA, stripped leads, 230Vac input, CE
PSU-93	Un-regulated power supply, 16-23Vdc, 300mA, screw terminal
TX4-100	Shielded 4 conductor transmitter cable 30.5m (100 ft)

* Insert Thermocouple Type: J,K,T or E

Product Selection (Specify Model Number)

Part Number	Description	Qty.
EWS-TC-J	Wall Mount thermocouple sensor, type J	
EWS-TC-K	Wall Mount thermocouple sensor, type K	
EWS-TC-T	Wall Mount thermocouple sensor, type T	
EWS-TC-E	Wall Mount thermocouple sensor, type E	
EWS-RTD	Wall Mount RTD sensor (100 Ohm Pt., .00385)	
EWS-TH	Wall Mount 400 series thermistor sensor	
EWS-TX	Wall Mount temperature transmitter	
EWS-RH	Wall Mount temperature/humidity transmitter	
EWS-BP-A	Wall Mount barometric pressure transmitter	

Accessories

EWS-MB	Conduit box mounting bracket/wall plate adapter kit	
PSR-24L	Regulated Power Supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL	
PSR-24S	Regulated Power Supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL	
PSR-24L-230	Regulated Power Supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE	
TX4-100	Shielded 4 conductor transmitter cable 30.5m (100 ft)	