

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.



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](#)

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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)

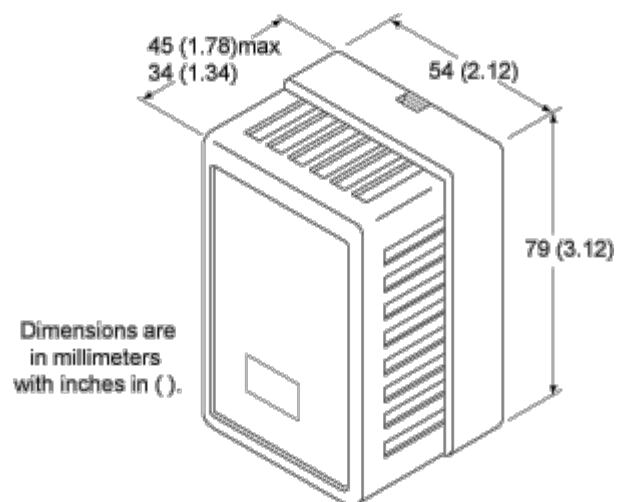
Sensor Type: 100 Ohm Pt. 0.00385

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 Butadiene 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.

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)	

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