

EWS Series

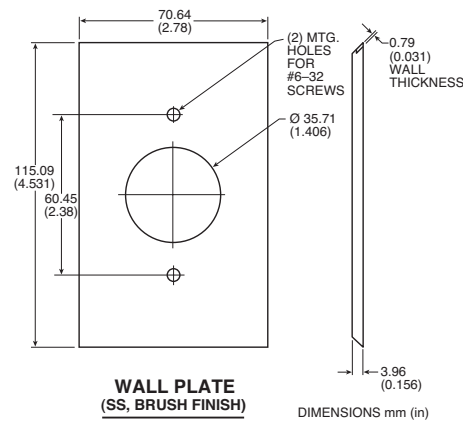
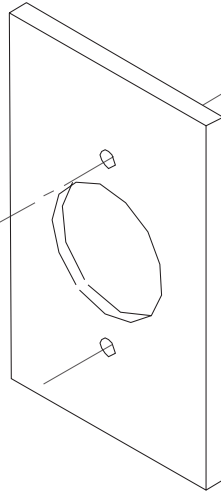
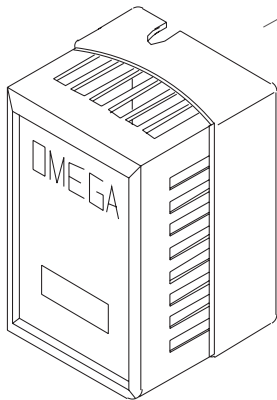
Economical Wall Mount Sensors

**INSTRUCTION
SHEET**

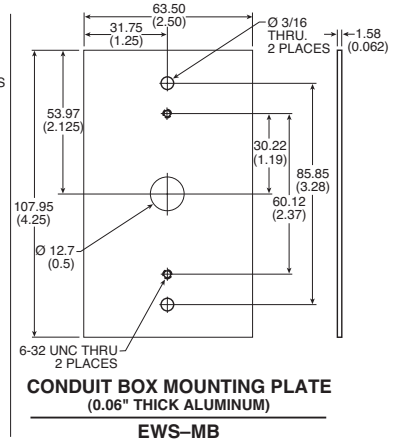
**EWS-TX
M3500/0514**

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STANDARD CONDUIT BOX IS
SHOWN FOR REFERENCE ONLY
AND MUST BE PURCHASED
FROM YOUR LOCAL ELECTRICAL
SUPPLY HOUSE



WALL PLATE AND MOUNTING BRACKET IS
NOT INCLUDED. ORDER ACCESSORY NO. EWS-MB



Specifications

Temperature Range: -18 to 57°C
(0 to 135°F)

Accuracy: (Still Air) $\pm 0.7^\circ\text{C}$ ($\pm 1.2^\circ\text{F}$)
@ 25°C $\pm 1.4^\circ\text{C}$ (2.5°F) across full range
(Slow Moving Air) $\pm 1.4^\circ\text{C}$ (2.5°F) @ 25°C
 $\pm 1.7^\circ\text{C}$ (3.0°F) across full range
Note: Not recommended for fast moving air applications.

Repeatability: $\pm 0.3^\circ\text{C}$ (0.5°F)

Output: 4-20 mA (1-5 Vdc) (User Selectable)

Temp. Time Constant: (for 63.2% response)
9 sec. in moving air (1 M/sec.), 30 sec. in still air

Power: 12-24 Vdc @ 20 mA

Max. Loop Resistance:
(V supply - 8 V)/0.020 A = Ohms

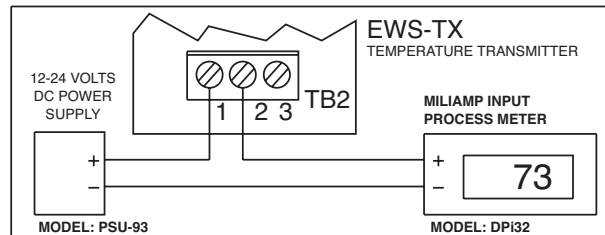
Enclosure Material: Acrylonitrile Butadiene

Dimensions: 79 x 54 x 45 mm
(3.12 L x 2.12 W x 1.78" H)

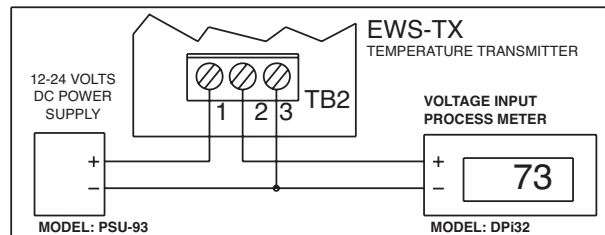
TEMPERATURE VS OUTPUT

Deg.C	Deg. F	4-20 mA	1-5 vdc
-18	0	4.0	1.00
-10	14	5.7	1.43
0	32	7.8	1.95
10	50	9.9	2.48
20	68	12.1	3.00
30	86	14.2	3.55
40	104	16.3	4.08
50	122	18.5	4.63
57	135	20.0	5.00

4-20 MA OUTPUT WIRING



1-5 VDC OUTPUT WIRING



Accessories

Model No.	Description
EWS-MB	Conduit box mounting bracket/wall plate adaptor kit
PSU-93	24 Vdc power supply (for transmitter models)
TX4-100	Shielded 4 conductor transmitter cable (100 ft)



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WARNING: These products are not designed for use in, and should not be used for, human applications.



WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product. If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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