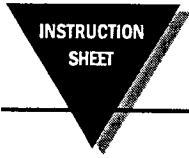




HX95, 96, 97

Space, Duct & Outside Air Mount Transmitter



M2798/1297

INSTALLATION GUIDE

Thank you for selecting Omega as your source for Relative Humidity (RH) and/or Temperature Transmitters.

2 YEAR WARRANTY

Omega warrants equipment of its manufacture to the original buyer against defective materials or workmanship for a period of **two years** from date of shipment from Omega.

Defects caused by negligence, misuse, improper installation, accident or unauthorized repair or alteration by buyer or user, or any modification, may void this warranty.

Sensors and calibration are not covered by this warranty.

CALIBRATION

Should it be determined that the transmitter is giving an improper output signal, then the customer should contact Omega at once. Any attempt to field calibrate this unit without first contacting Omega may void the warranty.

POWER REQUIREMENTS

HX95, HX96, and HX97 RH and Temperature Transmitters require a 18-36 volt (DC ONLY) power supply.

INSTALLATION

Space Mount:

The base assembly should be positioned with the **UP** arrow pointing upward. Locate the transmitter where it will be exposed to an unrestricted air circulation that is representative of the average humidity and/or temperature of the controlled space. Mount the transmitter on an indoor wall approximately 4 to 6 feet above the floor. Avoid locations where excessive moisture, corrosive fumes, vibration, or high ambient temperatures are present.

Duct Mount:

The transmitter should be mounted so that the sensor probe is in the center of the duct. The transmitter should be mounted away from fans, corners, heating and cooling coils, and other equipment that will affect the measurement of relative humidity. It should be mounted in a location that receives adequate air flow for proper operation.

Outside Air Mount:

The transmitter should be mounted in a sheltered area that is protected from rain. Ideally, the transmitter should be located on the north side of the building (under an eave) to prevent sun-heated air from rising up the building's wall and affecting the relative humidity of the sensor. **The transmitter should be mounted with the sensor pointing down to prevent water collection in the sensor cavity.**

For your convenience, the transmitters can be mounted using the **base as a mounting template**. The space mount transmitter is designed to install onto a **standard wall handybox**.

WIRING

Match your transmitter with the corresponding **WIRING DIAGRAM** and wire accordingly. Insure that all connections are in compliance with all national and local codes.

All Voltage Outputs are measured with respect to the POWER SUPPLY GROUND.

Wiring for the transmitter should be twisted, shielded pair 16-22 AWG. Use only copper conductors. Do not run transmitter wires and AC power wires together in the same conduit or wire bundle.

Caution: *Running transmitter wires and AC power wires in the same conduit or wire bundle may cause malfunction due to electrical noise.*

IMPORTANT

When installing transmitter cover, be sure to ALIGN CONNECTION PINS WITH TERMINAL BLOCK.

FIELD CALIBRATION (Optional)

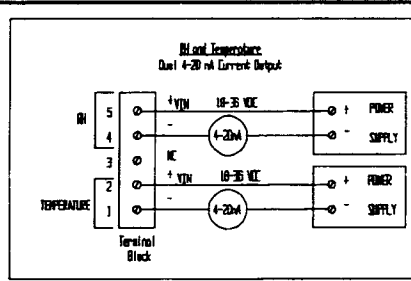
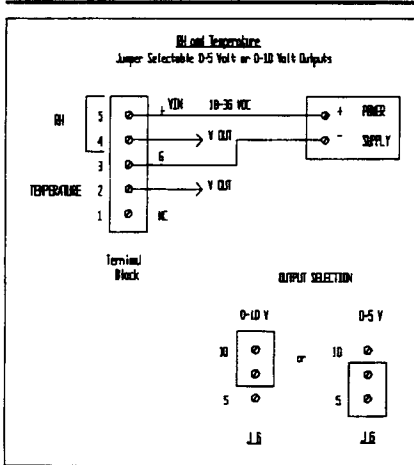
The HX95-CAL Handheld Calibrator conveniently allows for fast and easy, on-site, one-point offset adjustment of the HX95, HX96, and HX97 RH Transmitter without interrupting operation.

Requiring no tools or disassembly, the **HX95-CAL** can access the RH measurement of an installed space or duct mount transmitter easily and quickly. It also provides an accurate RH reference measurement of the environment, eliminating the need for additional RH reference measurement devices. The **HX95-CAL**, displaying both RH values allows a user to check the operation of a HX95, HX96, and HX97 and if necessary perform a one-point offset adjustment. This adjustment takes about 60 seconds and saves maintenance time and money while maintaining your transmitter's accuracy.

See back side for wiring diagrams and warranty information.

M-2798

WIRING DIAGRAMS



OMEGAnet™ On-Line Service
http://www.omega.com

Internet e-mail
info@omega.com

Servicing North America:

USA: One Omega Drive, Box 4047
Stamford, CT 06907-0047
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Laval (Quebec) H7L 5A1
Tel: (514) 856-6928
e-mail: canada@omega.com
FAX: (514) 856-6886

For immediate technical or application assistance:

USA and Canada: Sales Service: 1-800-826-6342 / 1-800-TC-OMEGA™
Customer Service: 1-800-622-2378 / 1-800-622-BEST™
Engineering Service: 1-800-872-9436 / 1-800-USA-WHEN™
TELEFAX: 996404 EASYLINK: 62968934 CABLE: OMEGA

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FAX: 44 (0)1453 283912 FAX: 44 (0)161 777 6622
Toll Free in England: 0800 488 488
e-mail: uk@omega.com

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 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 should malfunction, 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 being 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 which wear are not warranted, including but not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions of errors nor assumes liability for any damages that result from the use of its products. In accordance with information provided by OMEGA, either verbal or written, OMEGA warrants only that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY / DISCLAIMER language, and additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

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

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

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