



ohmic instruments co.

508 August Street, Easton, Maryland 21601
(410) 820-5111 (800) 626-7713 Fax (410) 822-9633
www.ohmicinstruments.com
e-mail: ohmic@ohmicinstruments.com



INDUSTRIAL & ENVIRONMENTAL SENSORS, INSTRUMENTS & CONTROLS SINCE 1969

RELATIVE HUMIDITY TRANSMITTER - MODEL SC-600E
HARSH ENVIRONMENT RH TRANSMITTER MEETS CORROSION AND EXPLOSION PROOF REQUIREMENTS

- Sealed Electronics
- Replaceable Sensor
- Cost Effective
- +/- 2% RH Accuracy
- Withstands ETO Sterilization Process
- Wide Range 20 to 90 %RH @ 77°F



PROVEN PERFORMANCE IN ETHYLENE OXIDE ENVIRONMENT

SC-600E consists of a signal conditioner card and replaceable RH sensor in a plug-in housing. The unit has a 3 foot shielded cable for connecting ground, + 5 VDC power, and signal output. For replacement sensors order Model UPS-600. Ohmic guarantees the SC-600E electronics to be within specification for one year. Sensor life expectancy in an EtO environment is several cycles.

Wire Connections

- Black wire..... Signal and Power grounds
- Red wire..... Regulated +5 VDC Power
- Yellow wire..... Signal output + VDC

*The cable shielding may be connected to ground to provide reduced interference.

The SC-600 sensor has a sensor housing that allows for economical replacement of the sensor. By removing a screw from the top of the housing the sensor (UPS-600) may be replaced as needed.



Temperature Compensation

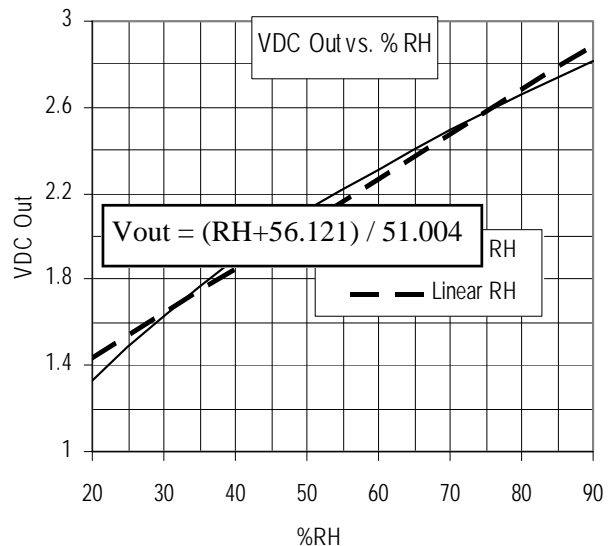
The average coefficient for temperature compensation of the UPS-500 sensor works out to -0.7% RH/ °C (-0.4% RH/ °F). The correction factor is computed with the expression:

$$C = -0.7(T-25)$$

C = the correction factor in percent to be algebraically added.
T = the temperature in °C.

$$C = -0.4(T-77)$$

C = the correction factor in percent to be algebraically added.
T = the temperature in °F.



SPECIFICATIONS SC-600E

Range.....	20—90 % RH
Accuracy from 30 to 80 % RH @ 77°F.....	± 2 %RH
Repeatability	± 2 %RH
Operating Temperature	−4 to +140°F
Response Time.....	60 Seconds 63% Change
Power.....	5 VDC @ < 2.0 mA
Output Signal	1 to 3 VDC Linear
Hysteresis	< 0.2 %
Dimensions:	
Transmitter.....	24 mm (0.950 ") x 60 mm (2.365")
Sensor.....	19 mm (0.750") x 50 mm (1.970")
Assembled.....	24 mm (0.950") x 105 mm (4.135")
Cable	3 conductor shielded 3 Ft.
Sensor.....	UPS-600 (replaceable)

WARRANTY

Notwithstanding any provision of any agreement the following warranty is exclusive.

Ohmic Instruments Company warrants each instrument it manufactures to be free from defects in material and workmanship under normal use and service for the period of 1-year from date of purchase. This warranty extends only to the original purchaser. This warranty shall not apply to fuses or any product or parts which have been subjected to misuse, neglect, accident, or abnormal conditions of operation.

In the event of failure of a product covered by this warranty, Ohmic Instruments Co. will repair and recalibrate an instrument returned within 1 year of the original purchase: provided the warrantor's examination discloses to its satisfaction that the product was defective. The warrantor may, at its option, replace the product in lieu of repair. With regard to any instrument returned within 1 year of the original purchase, said repairs or replacement will be made without charge. If the failure has been caused by misuse, neglect, accident, or abnormal conditions of operations, repairs will be billed at a nominal cost. In such case, an estimate will be submitted before work is started, if requested.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS, OR ADEQUACY FOR ANY PARTICULAR PURPOSE OR USE. OHMIC INSTRUMENTS COMPANY SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTRACT, TORT, OR OTHERWISE.

If any failure occurs, the following steps should be taken:

1. Notify Ohmic Instruments Co. giving full details of the difficulty, and include the model, type, and serial numbers (where applicable). On receipt of this information, service data, or shipping instructions will be forwarded to you.
2. On receipt of shipping instructions, forward the instrument, transportation prepaid. Repairs will be made and the instrument returned, transportation prepaid.

SHIPPING TO MANUFACTURER FOR REPAIR OR ADJUSTMENT

All shipments of Ohmic Instruments Co. instruments should be made via United Parcel Service or "Best Way" prepaid. The instrument should be shipped in the original packing carton, or if it is not available, use any suitable container that is rigid and of adequate size. If a substitute container is used, the instrument should be wrapped in paper and surrounded with at least four inches of excelsior or similar shock absorbing material.

CLAIM FOR DAMAGE IN SHIPMENT TO ORIGINAL PURCHASER

The instrument should be thoroughly inspected immediately upon delivery to purchaser. All material in the shipping container should be checked against the enclosed packing list. The manufacturer will not be responsible for shortages against the packing sheet unless notified immediately. If the instrument is damaged in any way, a claim should be filed with the carrier immediately. (To obtain a quotation to repair shipment damage, contact Ohmic Instruments.) Final claim and negotiations with the carrier must be completed by the customer.

Ohmic Instruments Company will be pleased to answer all application or use questions, which will enhance your use of this instrument. Please address your requests or correspondence to: Ohmic Instruments Company, 508 August St., Easton, Maryland 21601, ATTN: Technical Support. Or call Ohmic Technical Support at 410-820-5111.

All rights reserved. This manual may not be reproduced in full or in part without written permission of Ohmic Instruments Company. Information contained within this manual is believed to be accurate and reliable. However, Ohmic Instruments Company assumes no liability for its use. Ohmic Instruments Company reserves the right to supply its instruments with design changes and/or component substitutions that may not be documented in this manual. Contact our engineering department for information on equipment revisions not covered in this manual.