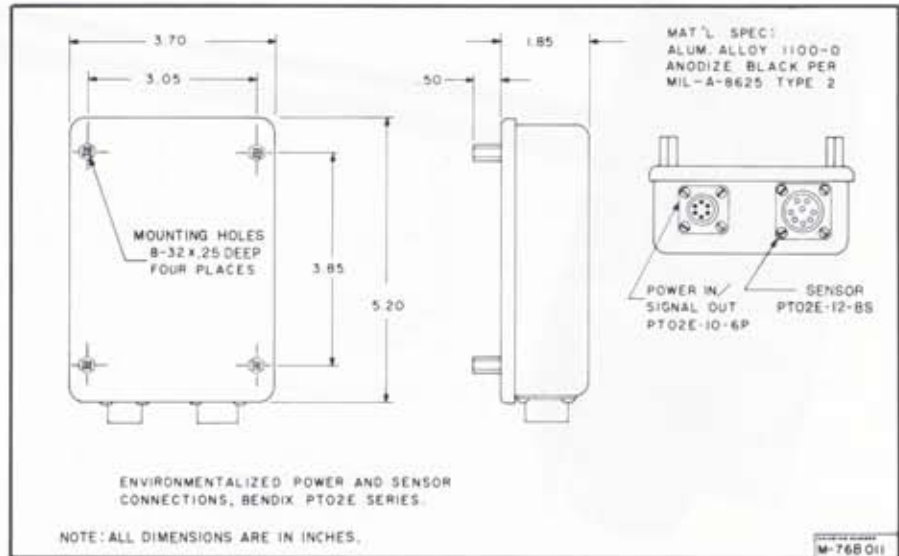
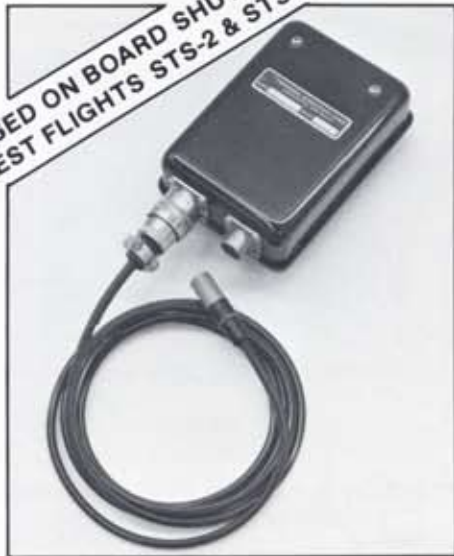


MODULAR — MODEL 2300

LINEAR HUMIDITY MEASUREMENT SYSTEM WITH TEMPERATURE OPTION

USED ON BOARD SHUTTLE
TEST FLIGHTS STS-2 & STS-3



THE 2300 SIGNAL CONDITIONING MODULE IS DESIGNED FOR USE WITH THE BR-101B SOLID-STATE HUMIDITY SENSING ELEMENT. THE 2300 SYSTEM PROVIDES A LINEAR OUTPUT OVER THE FULL RANGE OF 0 TO 100% RELATIVE HUMIDITY. AN OPTIONAL LINEAR TEMPERATURE READOUT OVER A VARIETY OF TEMPERATURE RANGES IS AVAILABLE WITHIN THE SAME PACKAGE. THE MODULE HAS AN OPEN PRINTED CIRCUIT BOARD ALLOWING READY ACCESS FOR REPAIR. IT IS PACKAGED IN AN ANODIZED ALUMINUM CASE WITH GASKET SEALED COVER AND ENVIRONMENTALIZED POWER/SIGNAL CONNECTIONS. THE 2300 IS DESIGNED FOR INDUSTRIAL APPLICATIONS, REMOTE WEATHER STATIONS AND LABORATORY USAGE WHEREVER RELIABILITY AND SIMPLICITY OF OPERATION AND INSTALLATION IS DESIRED.

- FEATURES:
- 1) REPAIRABLE OPEN CIRCUIT BOARD CONSTRUCTION.
 - 2) PACKAGED IN WATERPROOF ANODIZED ALUMINUM CASE.
 - 3) COMPLETE FULL-RANGE SIGNAL PROCESSING FOR %RH.
 - 4) OPTIONAL TEMPERATURE WITH LINEAR DC VOLTAGE OUTPUTS.

SPECIFICATIONS

PARAMETER:	SENSOR:
RELATIVE HUMIDITY:	BR-101B — SOLID-STATE HUMIDITY SENSOR.
RANGE:	0-100%
ACCURACY:	±4%RH TYPICAL ±2%RH OVER ENTIRE TEMPERATURE RANGE OF 0-50°C.
LINEARITY:	±2% FULL SCALE.
LINEAR OUTPUTS:	SEE OPTION TABLE.
TEMPERATURE:	YELLOW SPRINGS INSTRUMENTS — THERMILINEAR COMPONENT INTEGRATED WITHIN THE BR-101B ENCLOSURE.
RANGE:	AVAILABLE IN LINEAR UNITS OF °C OR °F (SEE OPTION TABLE).
ACCURACY:	±.35°C.
LINEARITY:	±.16°C.
LINEAR OUTPUTS:	SEE OPTION TABLE.
ELECTRICAL/OVERALL:	
OUTPUT DRIVE CAPABILITY:	10 MA — BOTH PARAMETERS.
TEMPERATURE RANGE:	0°C - 50°C.
STORAGE TEMPERATURE:	-55°C TO 125°C.
POWER REQUIREMENT:	-14 TO -24 VDC AND +14 TO +24 VDC. RATED @ 30 MA — UNREGULATED.
CONNECTORS:	ENVIRONMENTALIZED 6 PIN BENDIX FOR POWER/SIGNAL. ENVIRONMENTALIZED 8 PIN BENDIX FOR C-6B SENSOR CABLE INPUT. (SEE MECHANICAL SUPPLEMENT FOR CABLE LENGTHS AND SIZE.) BACK COVER
PHYSICAL:	SEE 2300 MECHANICAL.
CALIBRATION CYCLE:	ONE YEAR.

OUTPUT OPTIONS — ORDERING INFORMATION

RELATIVE HUMIDITY	RANGE 0-100%
OPTION	OUTPUT
H1	0-1.0 VDC
H5	0-5.0 VDC
H10	0-10.0 VDC

TEMPERATURE		
OPTION	RANGE	OUTPUT
T11	-30°C TO +50°C	-3 TO +5 VDC
T12	-30°C TO +50°C	-3 TO +5.0 VDC
T21	0°C TO 100°C	0 TO 1.0 VDC
T22	0°C TO 100°C	0 TO 5.0 VDC
T23	0°C TO 100°C	0 TO 10.0 VDC
T31	-22°F TO +122°F	-22 TO +122 VDC

EXAMPLE PART NUMBER — 2300H1-T11

2300 — SIGNAL CONDITIONER (2300 SERIES).
 H1—0-100%RH — 0-1.0 VDC OUTPUT.
 T11— -30°C TO +50°C, -3 TO +5 VDC.

ACCESSORIES SUPPLIED:

- 6 FT. POWER/SIGNAL CABLE WITH SEALED 6 PIN BENDIX CONNECTOR AND SPADE LUG TERMINATION.
- 6 FT. SENSOR CABLE WITH SEALED 8 PIN BENDIX SUPPLIED WITH STAINLESS STEEL 90 MICRON SINTERED FILTER FOR SENSOR PROTECTION.

OPTIONS AVAILABLE:

- OPTION (01) 100 FT. POWER/SIGNAL CABLE
- OPTION (03) EXTRA FILTER ELEMENTS
- OPTION (04) VOLTS DC TO CURRENT CONVERTER — 4 - 20 MA

MODEL RS-310

METEOROLOGICAL RELATIVE HUMIDITY & TEMPERATURE STATION

THE MODEL RS-310 METEOROLOGICAL RELATIVE HUMIDITY AND TEMPERATURE MEASUREMENT ENCLOSURE PROVIDES OPTIMUM ENVIRONMENTAL PROTECTION FROM THERMAL AND RADIANT ENERGY. ENCLOSURE MOUNTED ASPIRATION FAN PROVIDES CONTINUOUS VENTILATION OF THE RELATIVE HUMIDITY AND TEMPERATURE SENSOR MOUNTED IN THE INTAKE BOOM. ASPIRATION OF APPROXIMATELY 2 CFM IS ACHIEVED. NO. 6 TERMINALS ARE PROVIDED IN THE ENCLOSURE FOR CONNECTING POWER AND SIGNAL OUTPUTS. ENCLOSURE IS DRILLED FOR 1/2 INCH CONDUIT FITTINGS.



POWER: ASPIRATION FAN AND POWER SUPPLY REQUIRE 115 VAC AT.5 AMP. WEIGHT SHIPPING: 14 LBS.

ORDERING INFORMATION

RS-310	INSTRUMENT ENCLOSURE COMPLETE WITH FAN AND ±15 VDC POWER SUPPLY	\$ 750.00
RS-2310	INSTRUMENT ENCLOSURE COMPLETE WITH 2300 MODULE AND RH/TEMP SENSORS, ASPIRATION FAN, ±15 VDC POWER SUPPLY	\$1850.00