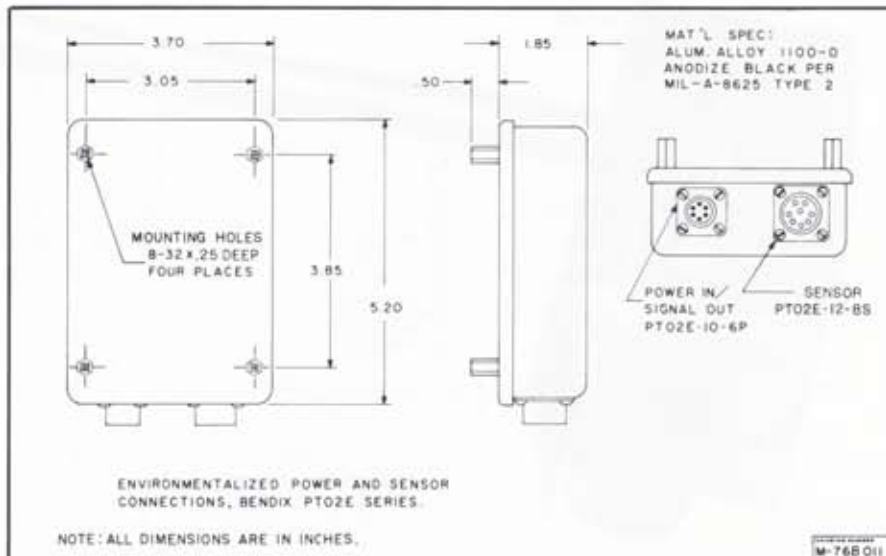
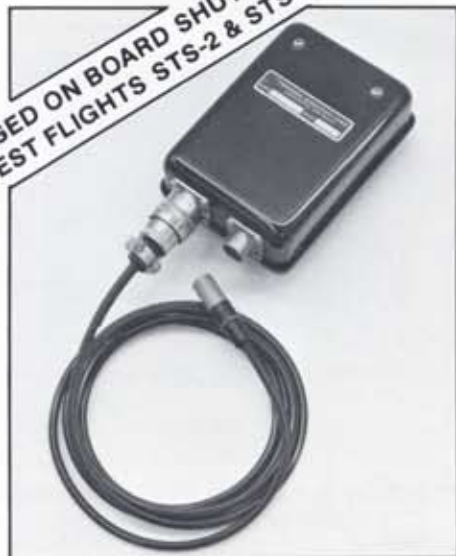


MODULAR — MODEL 2300

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.