NYAD SERIES 100
Moisture Analyzer

MOISTURE ANALYZER SYSTEMS WITH

STATE-OF-THE-ART FEATURES AND FLEXIBILITY

FEATURES:

- WIDE DYNAMIC RANGE: -100°C to +20°C Dew/Frostpoint
- SELECTABLE UNITS: °C, °F or PPM
- HIGH PRESSURE (7000 psig)
- NORMAL PRESSURE (2000 psig)
- ACTIVE PRESSURE CORRECTION
- REMOTE SENSOR (to 1000 ft,)
- ADJUSTABLE ALARM CONTACTS
- LARGE 3 1/2 DIGIT LCD
- NON-VOLATILE DATA MEMORY
- O.E.M PACKAGING
- GAS OR LIQUIED SAMPLES
- ANALOG OUTPUT (Voltage or Current)

In any measurement, sensor capabilities determine the performance of the analyzer. For this reason, NYAD, INC. is proud to introduce the most advanced moisture monitoring system available.

The A.C.T. (Advanced Capacitive Transducer) moisture sensor uses state-of-the-art technology to produce a rugged, fast responding, trace moisture sensor that is also designed to lower you costs by permitting sensor replacement without having to discard old probe bodies.

The A.C.T. technology has a high specificity to moisture as well as dramatic improvements in its performance compared to older, competitive versions. The A.C.T. sensor is mounted on a probe containing digitizing electronics and calibration data in electronic memory – this means all moisture probes are completely interchangeable.

The Series 100 Analyzers all feature up to two software adjustable alarm setpoints, voltage or current analog output with adjustable zero and span, and user selectable dew point or concentration units.

The Series 100 Analyzers are available in several configurations to meet application requirements of explosion proof analyzers for natural gas to low cost monitors designed to meet the needs of O.E.M. compressed air suppliers.

Whichever system best meets your requirements, be assured that the "heart" will be the same: the unique NYAD Moisture Probe and the Series 100 Microprocessor Based Analyzer.

SPECIFICATIONS

Moisture Probe
Type: NYAD A.C.T., Series 50
Range: -100°C to +20°C Dew/Frostpoint
Accuracy: ±2°C
Repeatability: ±0.5°C
Operating Temp: -130° to +70°C
Normal Pressure Rating: 2000 psig.
High Pressure Rating: 7000 psig.

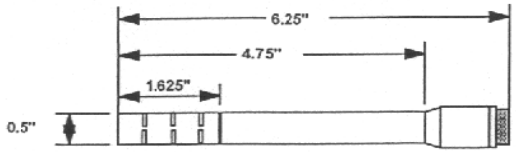
Enclosures
Rack: 19"W x 5.25"H x 11.5"D
Panel: 10"W x 5.25"H x 11.5"D
NEMA-4: 9.5"W x 6.25"H x 3.5"D
Portable: 8.5"W x 3"H x 9.25"D

Electronics
Display: 3 1/2 Digit LCD, 0.5" High
Alarm: SPDT, 1A @ 120 VAC
Output: 0 to 10 VDC, or 4-20mA
Power: 120 VAC 50/60 Hz., 1W Max.

837 Arnold Drive, Suite 210 Martinez, CA 94553
Phone (925) 370-8990 Fax (925) 370-8830 www.nyad.com

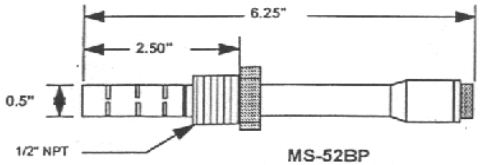
NYAD, INC

A.C.T. MOISTURE PROBE FAMILY



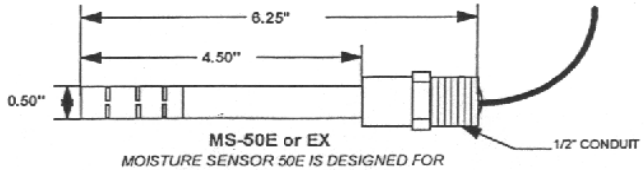
MS-50B

MOISTURE SENSOR 50B IS A 1/2" O.D. STAINLESS STEEL BODY PROBE WITH A BENDIX QUICK DISCONNECT CABLE CONNECTOR.
AVAILABLE NYAD FITTINGS: 1/2"t x 1/2"npt, 1/2"t x 3/4"-16 O'ring seal fitting or NYAD FLOW CELLS #33,#32,#31,or #30
PRESSURE RATING: 2750 PSIG



MS-52BP

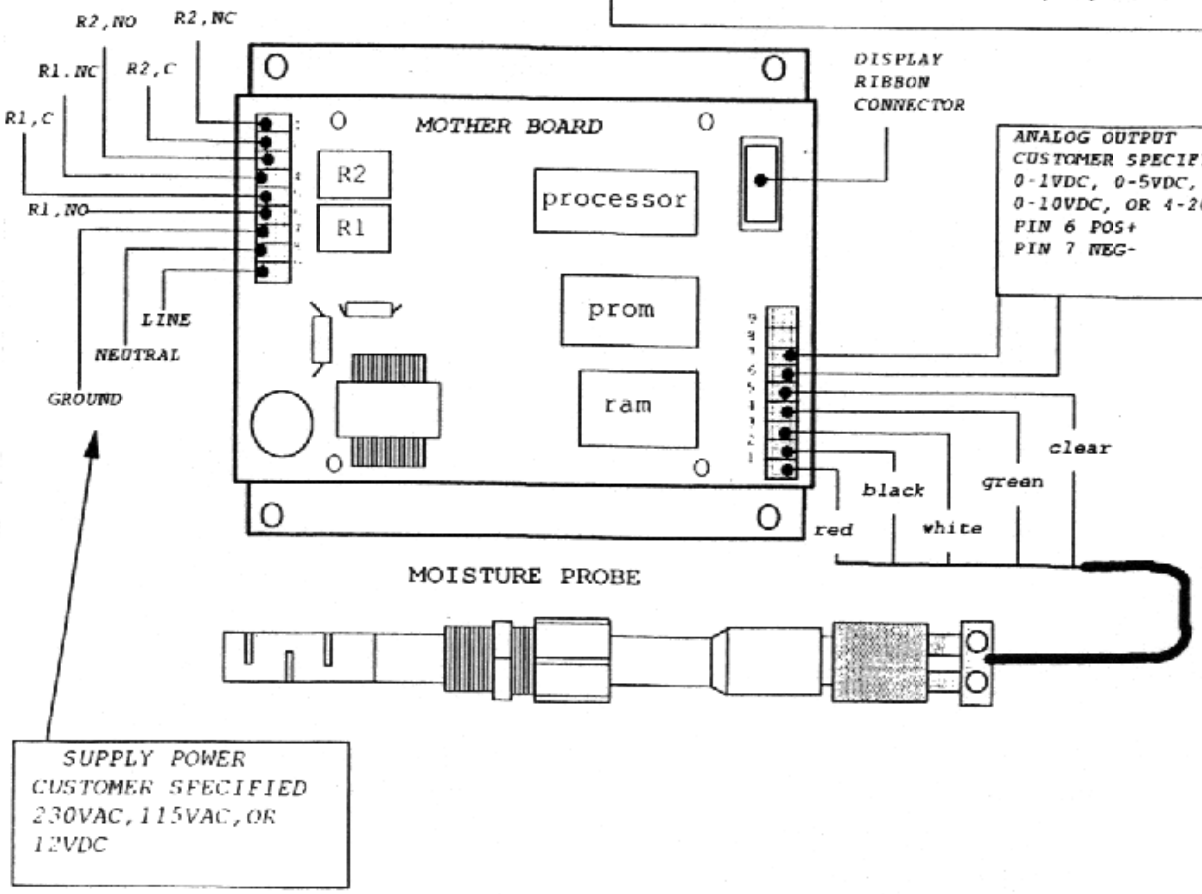
MOISTURE SENSOR 52-BP IS A STAINLESS STEEL PROBE WITH A BENDIX QUICK DISCONNECT CABLE CONNECTOR. FITTING IS 1/2" NPT S.S. PRESSURE RATING: 10,000 PSI
MS 52BPH (NOT SHOWN) FITTING IS 3/4"-16 O'ring seal. PRESSURE RATING: 10,000 PSI also.



MS-50E or EX

MOISTURE SENSOR 50E IS DESIGNED FOR HAZZARDOUS APPLICATIONS AND IS NORMALLY CONNECTED TO A EXPLOSION-PROOF JUNCTION BOX FOR SENSOR WIRE HOOK-UP. SENSOR BODY IS STAINLESS STEEL CONSTRUCTION
AVAILABLE FITTINGS: SAME AS MS-50B
PRESSURE RATING: 2750 PSIG

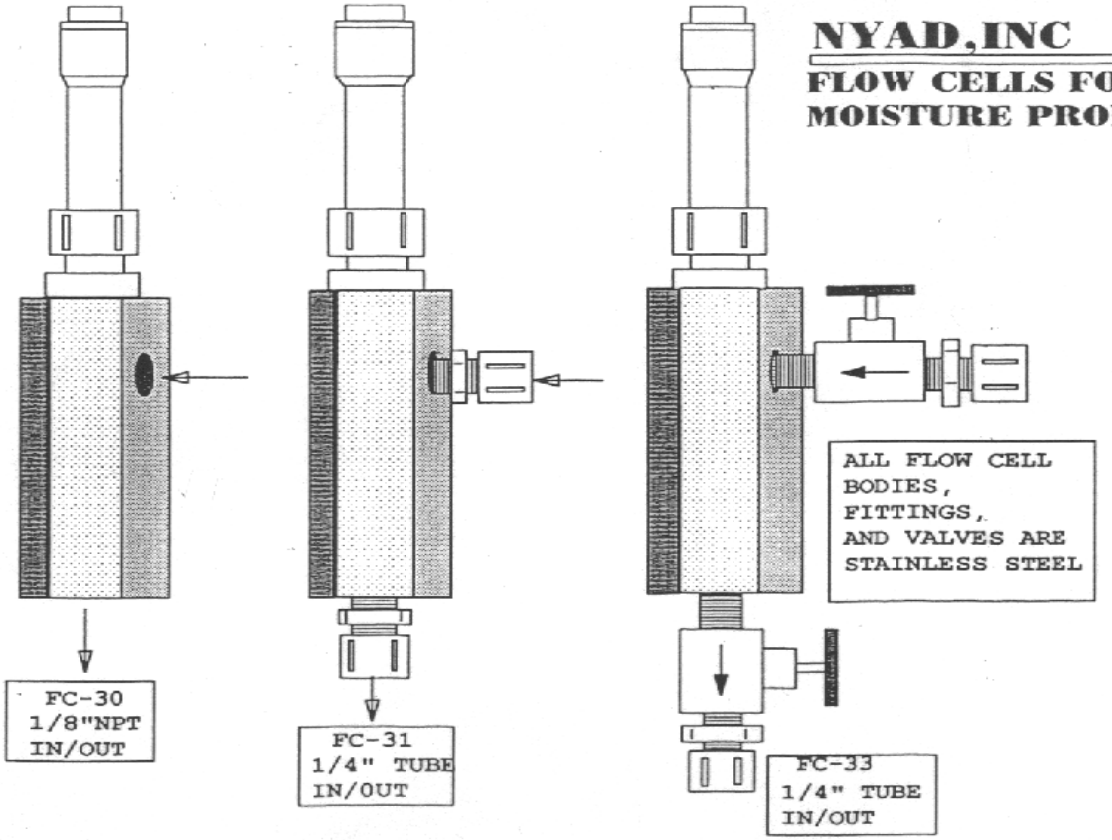
ELECTRICAL WIRE CONNECTIONS APPLY TO:
ANALYZERS MODELS; MA-100, MA-110, AND MA-120
MOISTURE PROBES SERIES 50 A, B, AND E

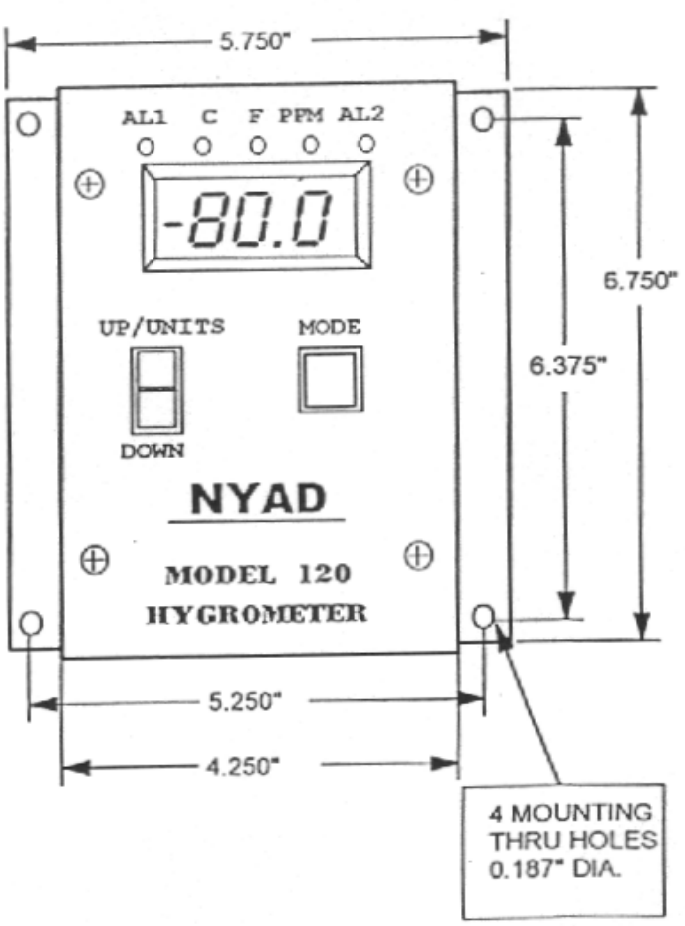


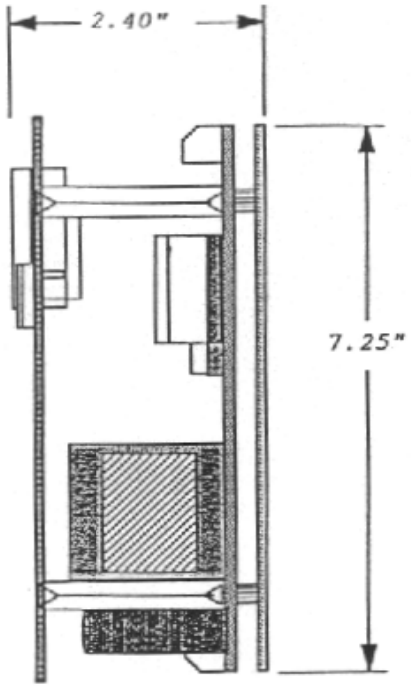
SUPPLY POWER
CUSTOMER SPECIFIED
230VAC, 115VAC, OR
12VDC

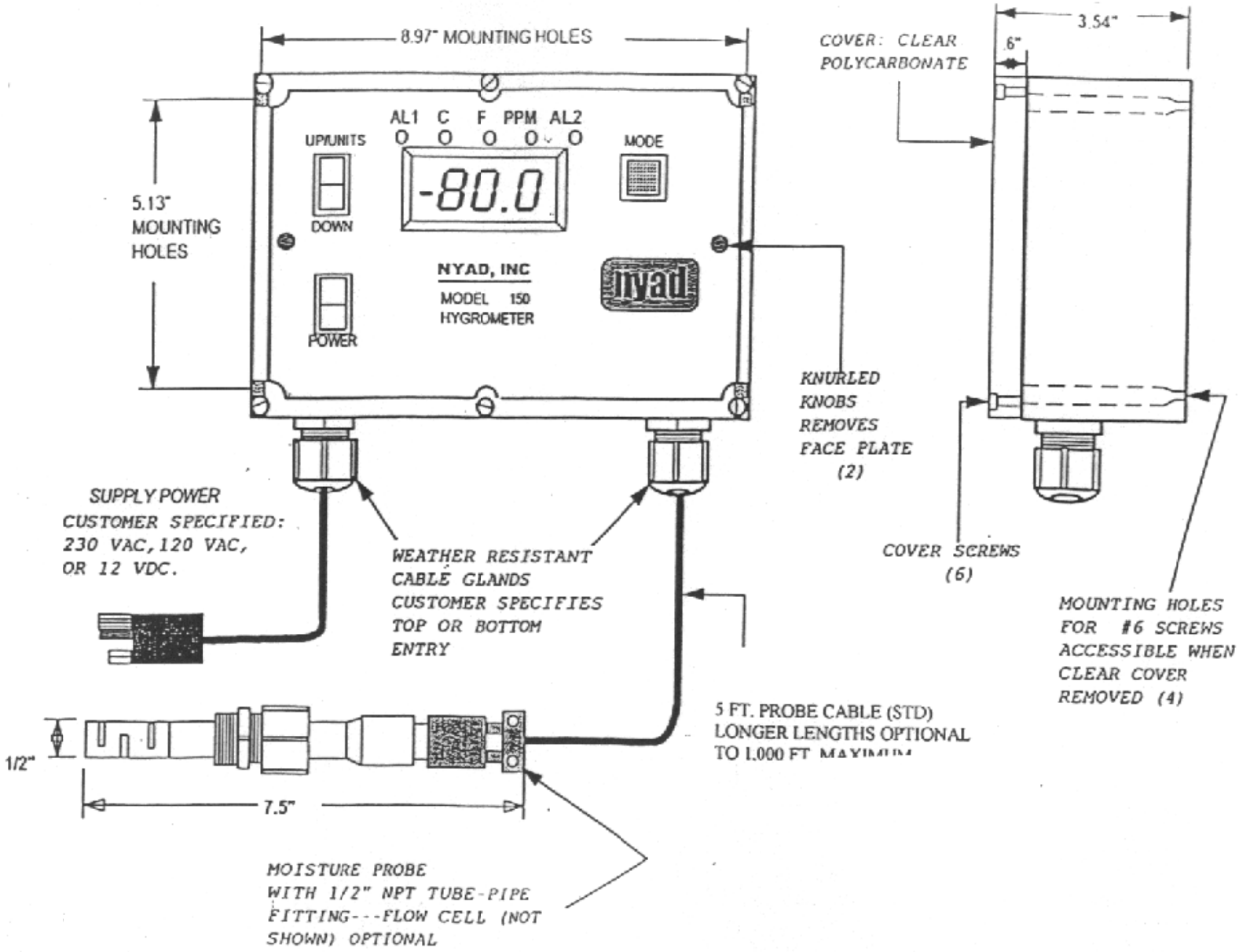
NYAD,INC

FLOW CELLS FOR MOISTURE PROBES

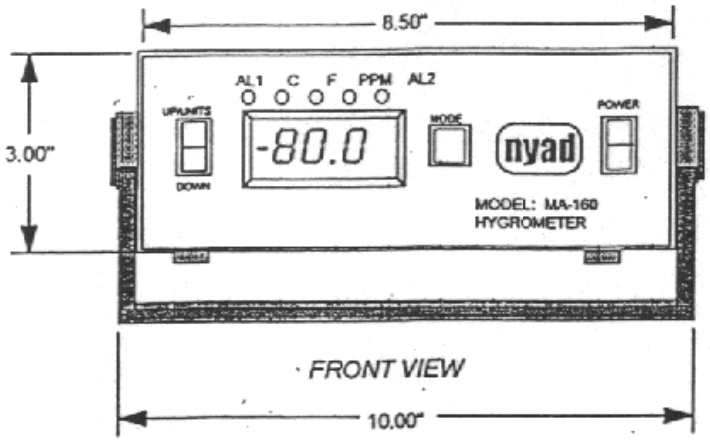



5.750"
AL1 C F PPM AL2
-80.0
UP/UNITS
MODE
DOWN
NYAD
MODEL 120
HYGROMETER
6.750"
6.375"
5.250"
4.250"
4 MOUNTING
THRU HOLES
0.187" DIA.

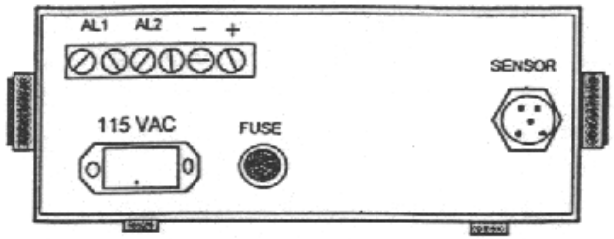

2.40"
7.25"


8.97" MOUNTING HOLES
5.13" MOUNTING HOLES
AL1 C F PPM AL2
UP/UNITS
DOWN
MODE
-80.0
POWER
NYAD, INC
MODEL 150
HYGROMETER
nyad
KNURLED KNOBS REMOVES FACE PLATE (2)
COVER: CLEAR POLYCARBONATE
3.54"
6"
COVER SCREWS (6)
MOUNTING HOLES FOR #6 SCREWS ACCESSIBLE WHEN CLEAR COVER REMOVED (4)
SUPPLY POWER CUSTOMER SPECIFIED: 230 VAC, 120 VAC, OR 12 VDC.
WEATHER RESISTANT CABLE GLANDS CUSTOMER SPECIFIES TOP OR BOTTOM ENTRY
5 FT. PROBE CABLE (STD) LONGER LENGTHS OPTIONAL TO 1,000 FT MAXIMUM
1/2"
7.5"
MOISTURE PROBE WITH 1/2" NPT TUBE-PIPE FITTING---FLOW CELL (NOT SHOWN) OPTIONAL

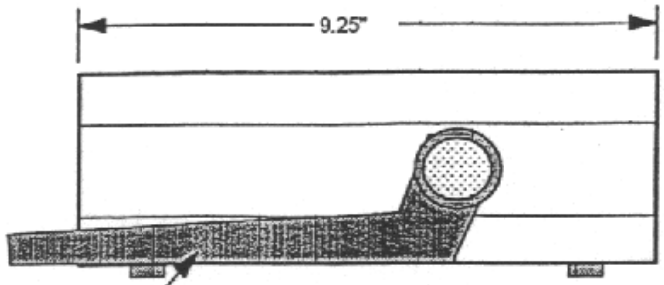
PORTABLE TRACE MOISTURE ANALYZER



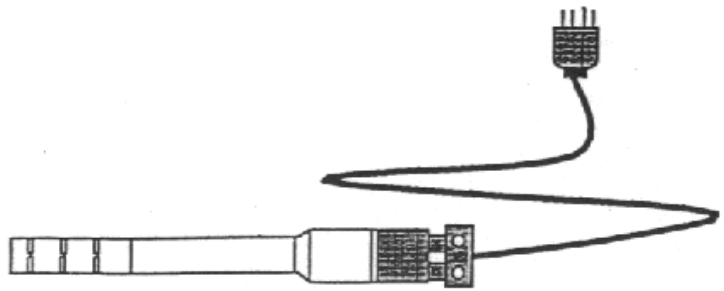
FRONT VIEW



REAR VIEW

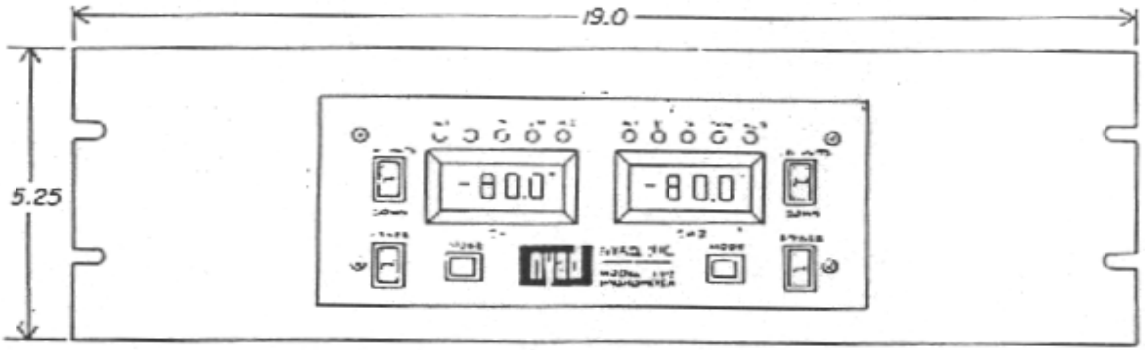


SIDE VIEW

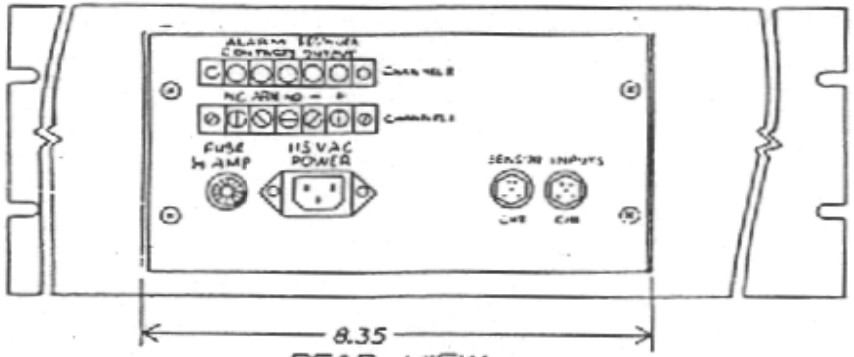


MOISTURE PROBE
MS-50B

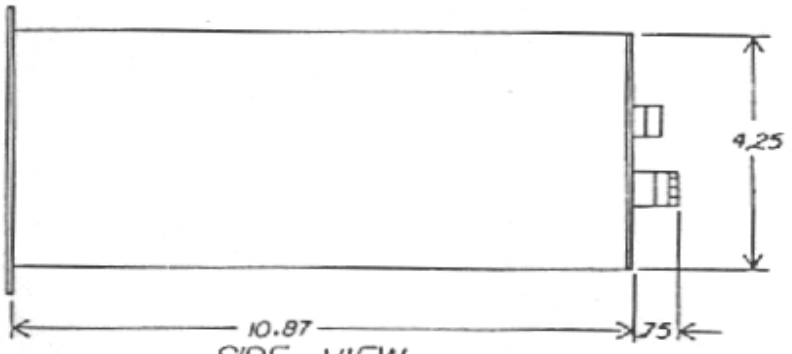
ADJUSTABLE "TILT STAND" CARRY HANDLE
ALLOWS EASY OPERATOR VIEWING OF DISPLAY



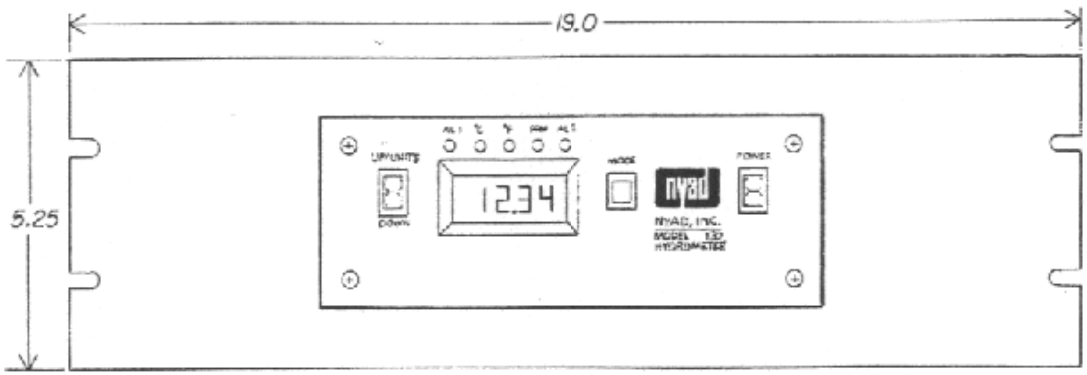
FRONT VIEW



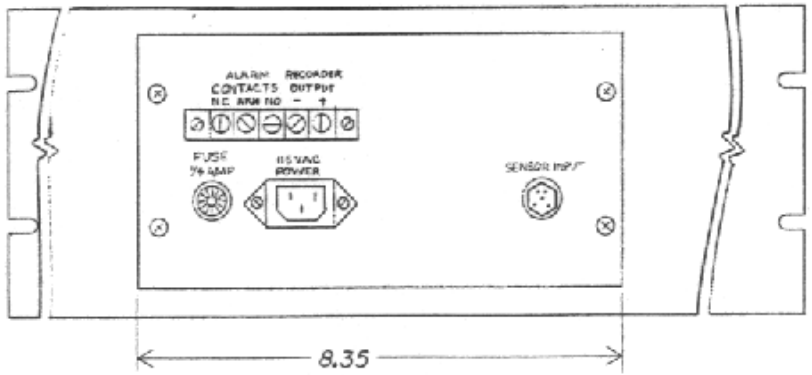
REAR VIEW



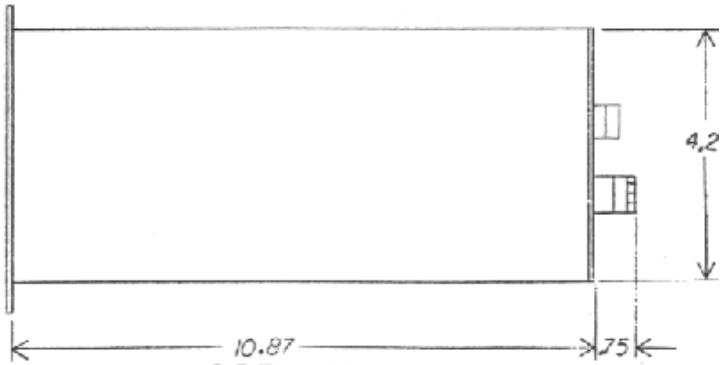
SIDE VIEW



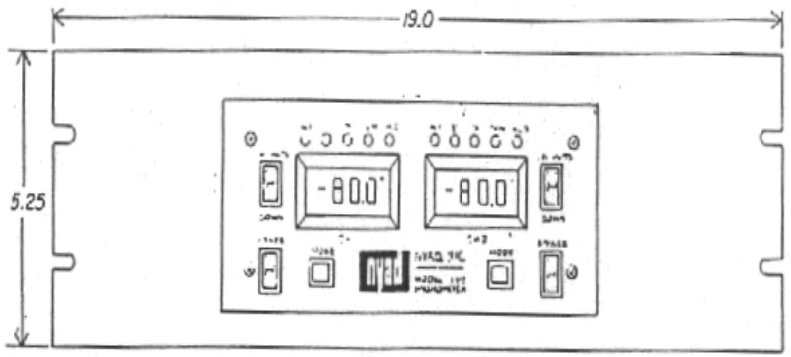
FRONT VIEW



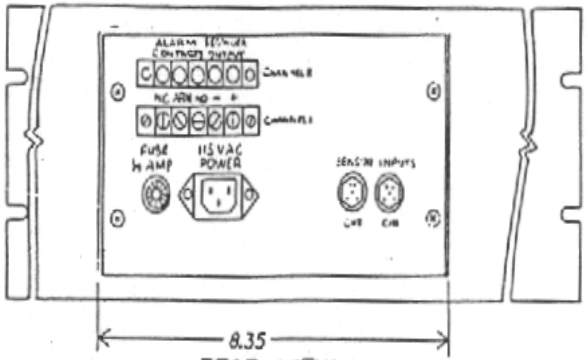
REAR VIEW



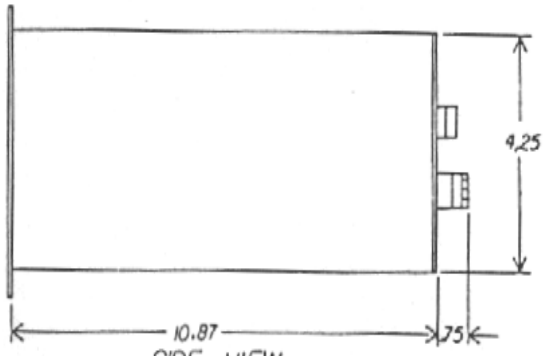
SIDE VIEW



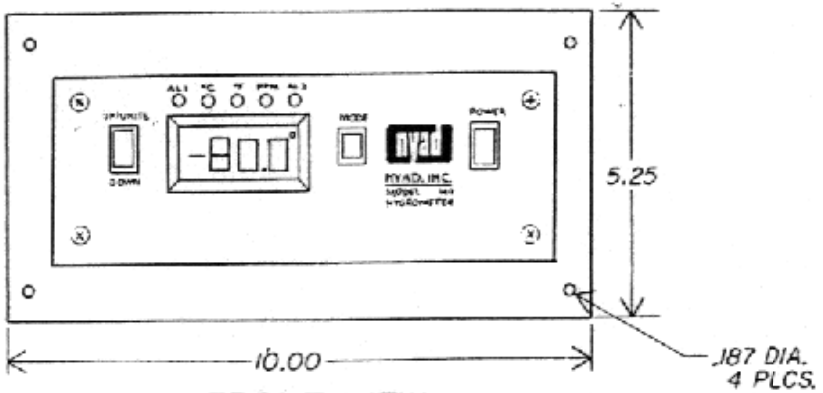
FRONT VIEW



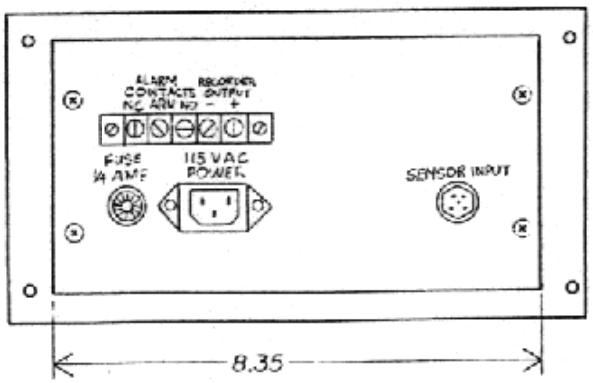
REAR VIEW



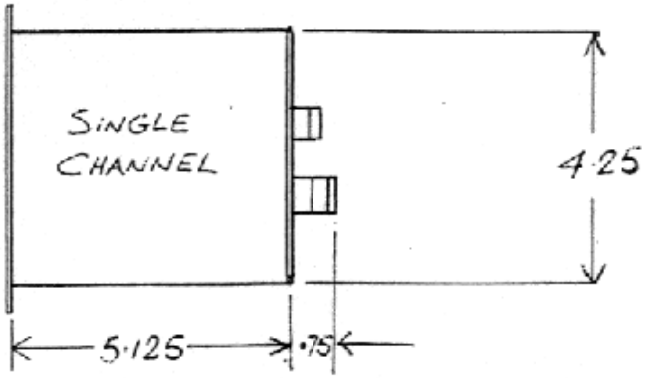
SIDE VIEW

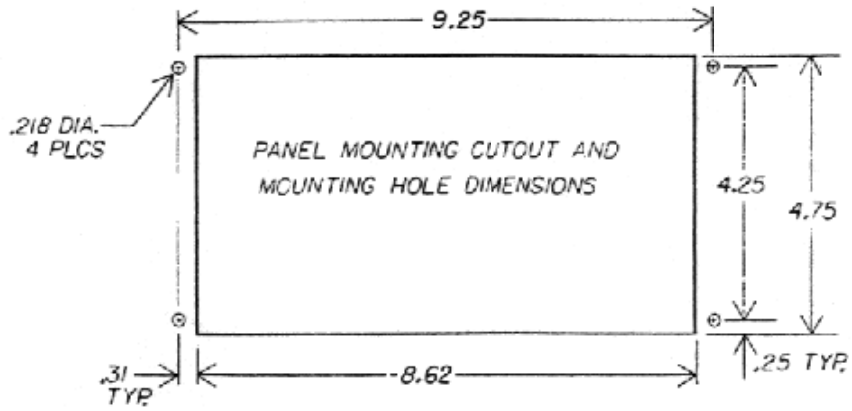


FRONT VIEW

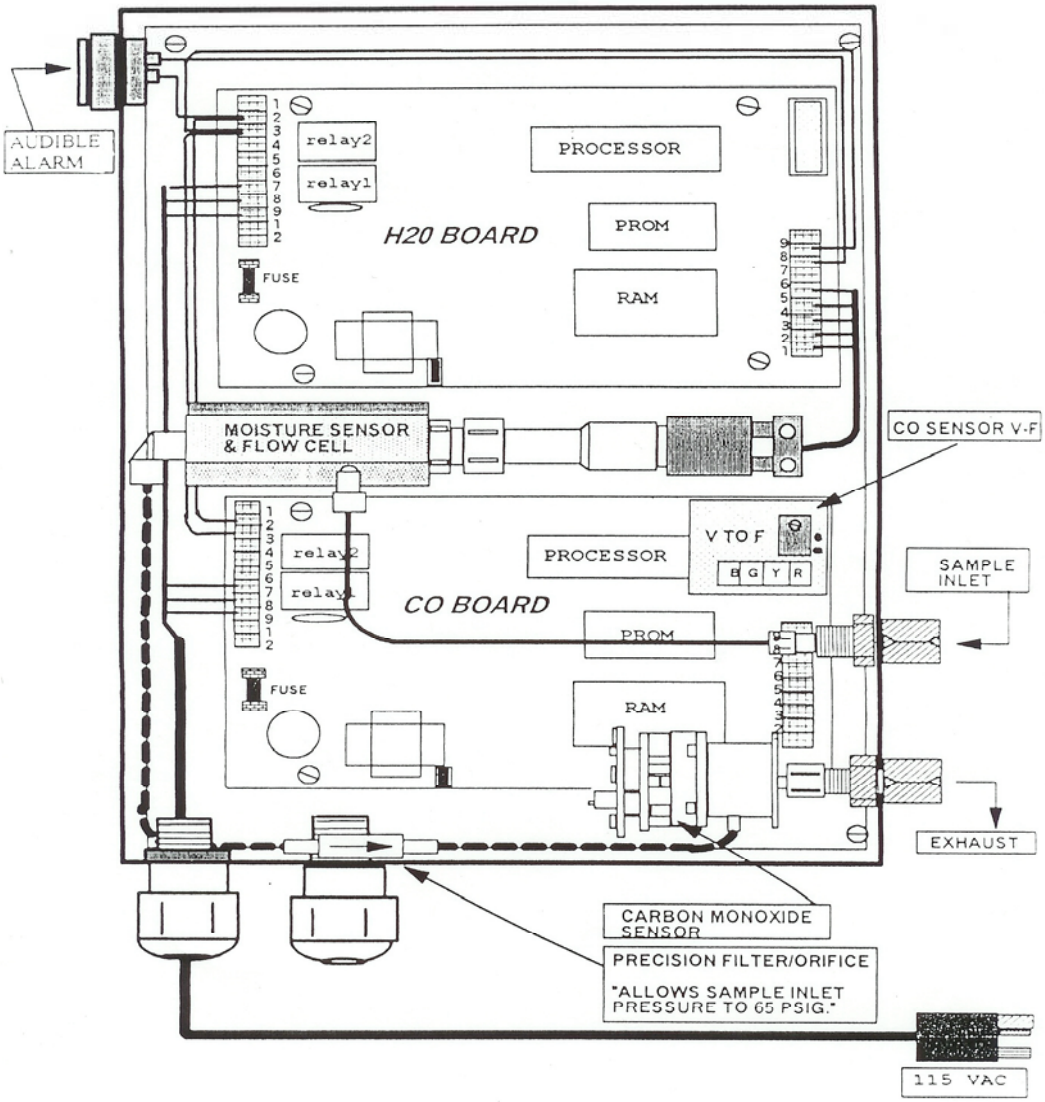


REAR VIEW





NYAD MOISTURE/CARBON MONOXIDE MONITOR MODEL: 652



INSTALLATION

a) The moisture probe may be installed directly into the sample stream through a ½ inch NPT adapter (see Fig.1). The penetration into the sample stream can be adjusted at initial installation before making-up the compression fitting.

When installation into the sample stream is impractical or not advisable (for reasons of high temperature or when installation of protective filter (coalescing or similar) are required) then the moisture probes may be installed in bypass flow cells (see Fig.1). When moisture probes are installed in bypass flow cells, the sample flow rate should be set between 250 and 500 cc per minute.

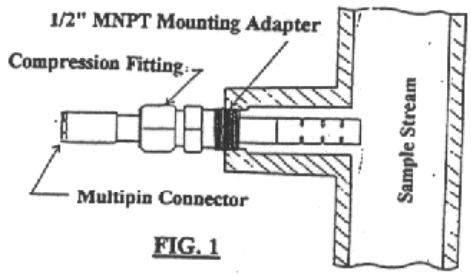


FIG. 1