



# AIR-1000 Inclinometer Angle Readout

## Features

- Splash Proof Bezel
- Heavy Duty Aluminum Case
- Front Panel Switches for Programming and Calibration
- 4 ½ Digits, 0.56 " LED Readout with Negative Indication
- Two Set-Points with Relay Closures
- Short Case, Only 4" Behind Panel Depth
- Programmable for Different Range Inclinometers
- RS232 Interface
- 0 to 10VDC Analog Output
- ±15 VDC Sensor Excitation



The AIR-1000 is a microprocessor based panel meter is designed to take the voltage output from the 3000 gravity referenced inclinometers and display it as an angle. The compact unit provides the ±15VDC sensor excitation, conditions the inclinometer output and displays the angle down to 0.001 degrees. An RS232 output is provided for interfacing to a computer, PLC or printer. Bezel and scratch resistant lenses are sealed to meet requirements of NEMA 4 and a gasket is supplied to seal the unit to a panel.

## AIR-1000 Series Inclinometer Angle Readout Specifications

### Performance

Display	4 ½ digit, seven segment red LED 0.56 inches high
Full Scale	Programmable; ±1.000°, ±3.000°, 14.50°, ±30.00°, ±90.00°
Accuracy	±0.01% of reading ±2 counts of LSD up to 60.00° ±0.1% of reading ±2 counts of LSD from 60.00° to 89.00°
Polarity Indication	"-" Displayed
Resolution , Auto-Ranged	0.001° below 10° 0.01° above 10°
Tare	up to 50% of span from single front panel switch
Analog Output	0 to 10VDC tracks display

### Analog to Digital Conversion

Technique	16 Bit Sigma Delta
Rate	3 conversions per second

### ASCII RS232 Serial Interface

Format	1 start bit, 8 data bits, 1 stop bit, no parity bits
Baud Rates, Programmable	9600, 4800, 2400, 1200, 600, 300, 150, 75

### Electrical

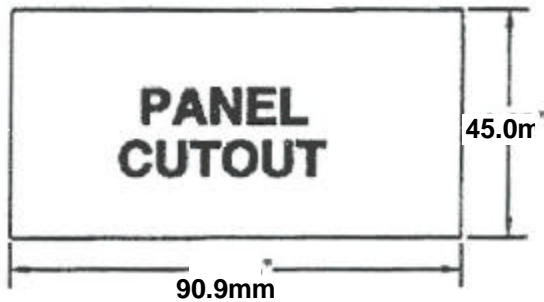
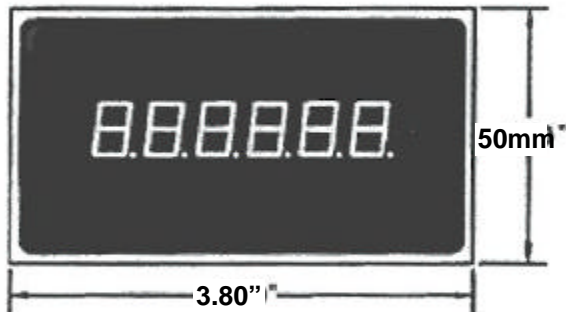
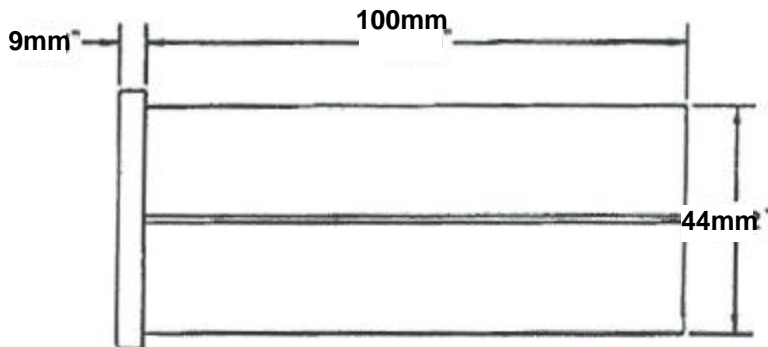
Input Voltage	105 to 132 VAC (47 to 500 Hz)
Input Current	<50mA
Inclinometer Excitation	±15VDC (±15mA)

### Environmental

Temp Range, Operating	-20 to +60°C
Temp Range, Survival	-25 to +85°C
Relative Humidity	0% to 90% Non-condensing



### Dimensions/Connections



- 1 – power-
- 2 – power+
- 3 – rx232
- 4 – tx232
- 5 – digital GND
- 6 – limit1
- 7 – common1
- 8 – limit2
- 9 – common2
- 10 – +input1
- 11 – -input1
- 12 – excitation plus
- 13 – excitation minus
- 14 – analog out
- 15 – analog GND

### Available Options (Consult Factory for Pricing)

- RS485 Interface
- 4-20mA Output
- 5VDC Input Power
- 9-18VDC Input Power
- 18-36VDC Input Power
- 230VAC Input Power

