AngleStar[®] Protractor System (APS)



- Complete angle measurement system
- Battery or external powered

measure

- Ranges: ±19.99°, ±45.0° and 0 to +90°
- Remote sensing up to 200 feet

DESCRIPTION

The AngleStar[®] Protractor System (APS) is a ready to use, stand alone system for angle measurements. The system incorporates a special AccuStar I ratiometric electronic clinometer, a digital LCD display, and a four foot interconnecting cable (cable lengths up to 200 feet are available, consult factory for details).

This system will operate for 1,000 hours on one 9 volt battery (not included), or may be powered from an external power source between +9 and +15 VDC, drawing minimal current. The display may be mounted up to 200 feet from the sensor for remote sensing applications such as drilling equipment or tower crane overload protection.

There are three systems to choose from; ± 19.99 degrees with 0.01 degree resolution, $\pm 45^{\circ}$ or 0-90°, both having 0.1 degree resolution.

Also see our other models, **AngleStar[®] DP-45** (handheld digital protractor), **AccuStar[®] Electronic Clinometer** (4 standard input/output configurations), and **AccuStar[®] IP-66** (2-wire loop powered angle transmitter).

Measurement Specialties, Inc. (NASDAQ MEAS) offers many other types of sensors. Data sheets can be downloaded from our web site at: <u>http://www.meas-spec.com/datasheets.aspx</u>

MEAS acquired Schaevitz Sensors and the **Schaevitz[®]** trademark in 2000.

FEATURES

- Separate sensor and display
- Remote sensing up to 200 feet
- External power jack
- 1,000 hour battery life
- Integral easel stand for readout

APPLICATIONS

- Crane safety systems
- Crawler drill mast angle
- Antenna positioning
- Machine tool angle
- Platform leveling/monitoring
- Audio speaker array alignment

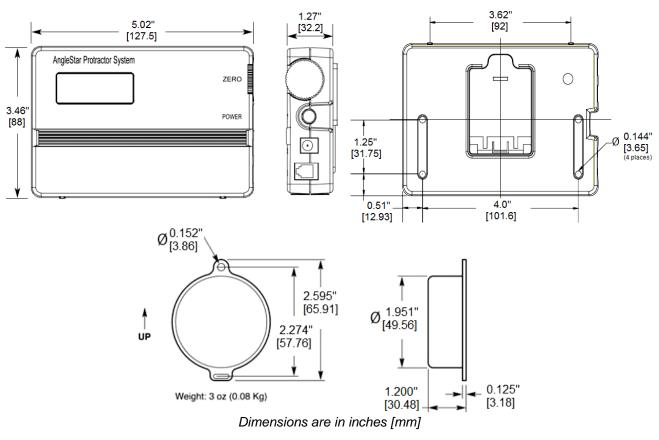
PERFORMANCE SPECIFICATIONS

ELECTRICAL		
Battery life	1,000 hours (approx.)	
External power	+9 to +15VDC	
Input current	<0.1mA	
Linearity*		
Null to 10 [°]	±0.1°	
10° to 45°	±1% of reading	
Null repeatability	±0.1°	
Cross axis error	<1%	
Sensor time constant	0.3 seconds	
Sensor frequency response	0.5Hz	
ENVIRONMENTAL/MECHANICAL		
Temperature range	-18° to +55°C (0 to +131°F)	
Cable	Four conductors, 26 AWG, PVC jacket, 4 foot length standard	

<u>Notes</u>:

* Linearity specification applies to Standard and High Resolution systems only! All values are nominal unless otherwise noted!

DIMENSIONS AND WIRING



measurement



ORDERING INFORMATION

MODEL	MEASUREMENT RANGE	PART NUMBER		
Standard	±45°	02160001-000		
High Resolution	±19.99°	02160003-000		
90 Degree	0 to +90°	02160005-000		
ACCESSORIES				
10 foot cable assembly		04160000-010		
20 foot cable assembly		04160000-020		
30 foot cable assembly		04160000-030		
40 foot cable assembly		04160000-040		
50 foot cable assembly		04160000-050		
100 foot cable assembly		04160000-100		
150 foot cable assembly		04160000-150		
200 foot cable assembly		04160000-200		

TECHNICAL CONTACT INFORMATION

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