





FEATURES

- ±65° total sensing range
- Single-Ended or Bipolar DC operation
- Rugged plastic housing
- 18" flying lead termination

APPLICATIONS

- Wheel alignment
- Construction equipment
- Antenna position
- Robotics

ACCUSTAR®-EA

Electronic Clinometer

SPECIFICATIONS

- ±60° linear sensing range
- Single-Ended and Bipolar DC models
- High accuracy / low cost
- Lightweight and compact
- Rugged plastic housing
- CE certified (production availability ~Sept 2016)

The AccuStar®-EA Electronic Clinometer is the next generation in the highly acclaimed **AccuStar®** family. Building on the success of the original AccuStar®, the AccuStar®-EA takes low cost tilt sensing to the next level by combining 100% solid state technology with digital calibration and proprietary filtering techniques. The result is an extremely accurate tilt sensor with improved linearity, expanded linear sensing range ($\pm 60^{\circ}$), generous operating temperature range (-40° to $+80^{\circ}$ C), and a 70% reduction in temperature induced errors.

Like its predecessor, the **AccuStar®-EA** measures just 2 inches in diameter, making this compact and affordable sensor the ideal choice where high accuracy tilt measurements are required in space restrictive applications.

The **AccuStar®-EA** mounts easily onto any vertical surface using just two #6 or M3.5 screws. The slot at the base allows for fine adjustment of the zero angle position after installation. With a choice of either Single-Ended or Bipolar DC output models, the AccuStar®-EA is designed for easy installation and integration.

Also see our other models, **AccuStar® IP-66** (2-wire current loop or voltage output, IP-66 rating) and the **AngleStar® Protractor System** (AngleStar® Electronic Clinometer with digital readout).

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

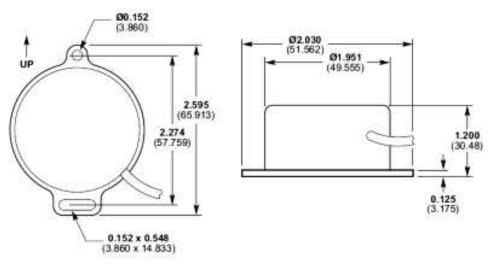
PERFORMANCE SPECIFICATIONS (COMMON)

ELECTRICAL		
Total range	±65°	
Linear range	±60°	
Linearity		
Null to ±15°	0.075°	
±15° to 60°	±0.5% of reading	
±60° to 65°	Monotonic	
Resolution	0.05°	
Null repeatability	0.05°	
Cross axis error	<1% up to 90°	
Frequency response	2.0Hz @ -3db	
Operating temperature range	-40° to +80°C	
Storage temperature range	-55° to +80°C	
Temp. coefficient of null	0.010° / °C	
Temp. coefficient of scale factor	0.01% / °C	
Cable	18" flying leads, PTFE insulation	
EMC		
Emissions and Immunity	EN 61326-1	

Notes:

All values are nominal unless otherwise noted!

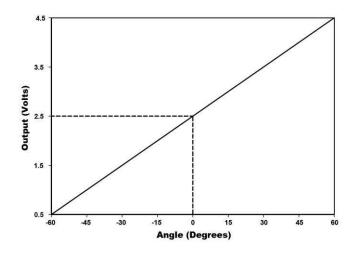
DIMENSIONS (COMMON)



Dimensions are in inches (mm)

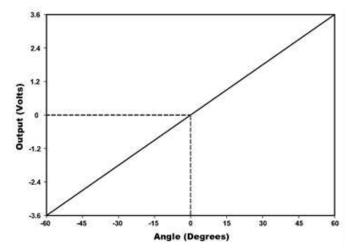
SINGLE-ENDED OUTPUT MODEL

SPECIFICATIONS		
Input voltage	+5 to +30VDC (unregulated)	
Input current (max)	5mA	
Load resistance (min)	10kΩ	
Output	+0.5 to +4.5VDC, ±0.5%	
Level output (0°)	+2.5Vdc	
ELECTRICAL CONNECTIONS		
Red	+ 5 to +30VDC (unregulated)	
Black	Power ground	
Yellow	Signal output (referenced to power ground)	



ANALOG OUTPUT MODEL

SPECIFICATIONS		
Input voltage range	±8 to ±15VDC	
Input current (max)	5mA / supply	
Scale factor	60mV / degree, ±0.5%	
Load resistance (min)	10kΩ	
Level output (0°)	0 VDC	
ELECTRICAL CONNECTIONS		
Red	+8 to +15VDC	
Black	Power ground	
Gray	- 8 to -15VDC	
Blue	Signal output (referenced to power ground)	



ORDERING INFORMATION

Model	Part Number
Single-Ended	02114002-000
Analog	02115002-000

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