





FEATURES

- Ranges from ±30 ±450
- Rugged die-cast aluminum housing
- Dust and water tight to IP-66
- Current or voltage output
- 3m (10 ft.) long jacketed cable

APPLICATIONS

- Crane safety systems
- Machine tool angle positioning
- Barge leveling and load distribution
- Medical vehicle leveling / mobile CT & MRI
- Mining equipment
- Solar array tracking systems

ACCUSTAR® IP-66

4 to 20mA Loop Powered Clinometer

SPECIFICATIONS

- ±3° to ±45° sensing ranges
- IP-66 rated
- 4 to 20mA and analog outputs
- Zero and span adjustable
- -25° to +60°C temp range
- Rugged die-cast housing

The AccuStar® IP-66 is a 4 to 20mA loop powered clinometer specifically designed for industrial and outdoor applications. Rated to IP-66, the rugged die-cast, powder coated aluminum housing provides protection in the most hostile environments.

The heart of the system is a variable resistance-based tilt sensor with no moving parts. When rotated about its sensitive axis, this unique sensor provides an exceedingly linear variation in resistance, which is then electronically converted into 4 to 20mA and VDC analog outputs proportional to the angular position.

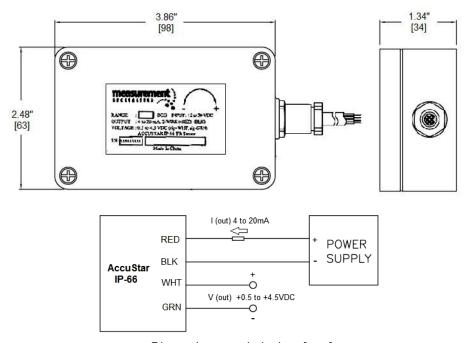
The AccuStar® IP-66 may be operated as either a 2-wire loop powered angle transmitter, or a 4-wire analog output tilt sensor. Mounting features integrated into the die cast housing, make installation onto any vertical surface easy.

PERFORMANCE SPECIFICATIONS

ELECTRICAL			
Linear range	±3° to ±45°		
Input voltage (unregulated)	+12 to +30VDC (+18VDC min. required for 4 to 20mA operation)		
Output*	4 to 20mA or +0.5 to +4.5VDC (see note)		
Zero (level) output	12mA or +2.5VDC		
Max loop resistance	500Ω at +24VDC		
Linearity			
Null to 10°	±0.1°		
10° to 45°	±1%		
Null repeatability	0.05°		
Cross axis error	<1% up to 45°		
Frequency response	0.5Hz @ -3db		
ENVIRONMENTAL/MECHANICAL			
Operating temperature range	-25° to +60°C		
Temp. coefficient of null	0.05°/°C		
Temp. coefficient of scale factor	±3° & ±5° models = 0.3% / °C All Others = 0.1% / °C		
Cable	Shielded cable with FEP jacket, four conductors, stranded 22 AWG, 3m (10 foot) long min		

Notes:

DIMENSIONS AND WIRING



Dimensions are in inches [mm]

^{*} Unit supplied with 4 to 20mA output calibrated. Use of the +0.5 to +4.5VDC output requires subsequent calibration! All values are nominal unless otherwise noted!

ORDERING INFORMATION

Model	Measurement range	Part Number
AccuStar® IP-66	±3°	72162000-003
	±5°	72162000-005
	±10°	72162000-010
	±15°	72162000-015
	±20°	72162000-020
	±30°	72162000-030
	±45°	72162000-045

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