

Single Axis $\pm 30^\circ$ Range

Model : M1

The DAS electronic clinometer is an angular measurement sensor with high accuracy. It is especially designed for industrial applications. The heart of the instrument is capacitive liquid based sensor equipped with integrated sensor electronics.

The sensor can measure the angle with very high accuracy and well-marked S/N ratio during long-term stability.

Designed for small size and can be easily installed to X-axis or Y-axis because it has Bracket itself. It can be used at the severe condition because it is covered waterproofed high intensity plastic case.



Features

- Capacitive liquid based sensor
- Small size only 28x37mm
- Rugged plastic housing
- Extremely accurate
- Light weight only 22g

Application

- Wheel alignment
- Construction equipment
- Antenna position compensation system
- Robotics

Performance Specification

Measuring range	$\pm 30^\circ$
Resolution	<0.005 degrees
Non-linearity	<0.2% FS
Transverse Sensitivity	<1% at $\pm 30^\circ$ tilt
Response time	<0.3 second
Power supply (Regulated)	5 Vdc
Min.to Max.supply	3 to 6 Vdc
Current consumption 5V	<1 mA
Operating Temperature	-40 to .. +85°C
Storage Temperature	-45 to .. +90°C
Weight	approx. 22 g

Performance Specification

Sensitivity	appox 3.5 mV/ °
Zero offset at 5V	2.5 \pm 0.1 Volt
Temperature Drift of sensitivity	0.12% /K
Temperature Drift of Zero	\pm 0.025 mV/K
Output impedance	10 kOhm
Standard cable	3 high flexible wires 200 mm long approx. \varnothing approx 1.0 mm

Sensor Type

Analog output :

Digital output : approx. 20HZ to approx. 1MHZ

DIMENSIONS (mm)