

Dual-Axis Servo-Inclinometer, model TSD-232

Comprising two TS inclinometers packaged in a single housing. As such, it features the same high performance resulting from closed loop operation: high linearity, virtually infinite resolution, low temperature sensitivity, RS232 communication.



FEATURES:

- High accuracy closed loop operation
- Virtually infinite resolution
- Excellent repeatability
- High environmental resistance
- Supplied with 3m long cable

SPECIFICATIONS:

Measuring range	$\pm 5^\circ$; $\pm 10^\circ$; $\pm 30^\circ$; $\pm 60^\circ$
Non-linearity error ¹⁾	0.02%FR
Resolution	0.0001° for $\pm 5^\circ$ and $\pm 10^\circ$ range; 0.001° for $\pm 30^\circ$ and $\pm 60^\circ$ range
Non-repeatability & Hysteresis	< 0.005% FR
Sensitive axis misalignment	0.5° typ
Cross-axis sensitivity	< 0.002g/g
Bias	< 0.1% FR
Power supply	5VDC ($\pm 5\%$) or 7 to 24VDC unregulated; 100mA
Output	RS232
Step response	> 150 msec
Zero temperature coefficient	0.0005 °/°C typ
Span temperature coefficient	0.01%/°C typ
Temperature range	-30°C to +70°C operating; -40°C to +85°C survival
Maximum overload	100g constant acceleration
Shock survival	250g, 11msec
Housing material	Sulphuric anodized # 2024 Aluminum alloy
Weight	350 grams

1) Non-linearity error defined as maximum deviation of any point from the theoretical sine function line, in percent of the full measuring range.

How to order?

Ordering examples: TSD-232 with +/-5 measuring range and 24VDC unregulated supply will be named TSD-232-5-24V
TSD-232 with +/-60 measuring range and 5VDC regulated supply will be named TSD-232-60-5V

DIMENSIONS (mm):

