

TILLI PORTABLE TILT METER

MODEL OSCLIN14500



TILLI is a portable tiltmeter. It consists of a rugged stainless steel frame with aluminium sensor housing containing a force-balanced servo-accelerometer. The surfaces of the frame are machined to allow an accurate positioning of the tiltmeter during measurements. Measurements can be done on horizontal or vertical surfaces. Readings in two orthogonal directions can be obtained rotating the instrument of 90° only on the horizontal surface. Coniugated measurements (180 degree rotation) eliminate instrumental and mounting offset.

TECHNICAL SPECIFICATIONS

Model	OSCLIN14500
Sensor	uniaxial force-balanced servo-accelerometer
Measuring range	±14.5 degrees
Instrument resolution	better than 0.001 degree with both CRD-400 readout and Leonardo datalogger
Total instrument accuracy	better than ±0.04% F.S. (linearity+hysteresis+repetability)
Scale thermal factor sensitivity	±0.0002% / °C
Signal output	±5 V, ±0.5%
Operating temperature range	-40°C to +85°C
Compensated temperature range	-20°C to +60°C
Waterproof protection	IP67
Material	Stainless steel frame anodized aluminium sensor housing
Dimensions	172 x 162 x 99 mm
Weight	3 Kg (without carrying case)
Carrying case	Plastic IP68 protection dimensions: 340 x 290 x 150 mm
electromagnetic compatibility	according to EN 61326-1 and EN 61326-A1

		directives for EMC emission and immunity
		CRD-400 READOUT Featuring simple operation and manual readings. See separate data sheets for any further information LEONARDO DATALOGGER Allows easy download of data records to a PC for processing. See separate data sheets for any further information. TILT PLATE when in use TILLI is placed on the tilt plate which is permanently installed on the structure surface. The bottom surface of the tiltmeter is used with horizontally-mounted tilt plates while the side surface is used with
		vertically-mounted tilt plate. Tilt plate is a weather resistance bronze plate with four pins. The tilt plate is manufactured to guarantee a dimensional stability for long term monitoring. A stainless steel protective cover is also available as option.
SPECIFICATIONS TILT PLATE		
Material	Bronze	
Diameter	135 mm	
Height	23 mm	
Weight	0.3 Kg	
Mounting method	epoxy bonding compound or screws (four 12 mm holes provided)	
OSCLTC14000	Stainless steel cover for tiltplate	