

Brain

Borehole Readout Array for Inclinerometers



Built-in electronics

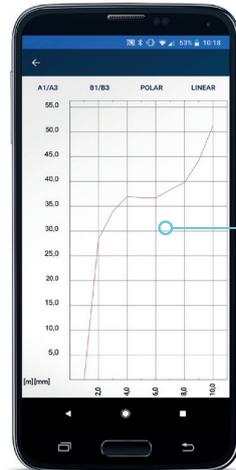
✦ Low consumption bluetooth interface

Rechargeable and long lasting batteries

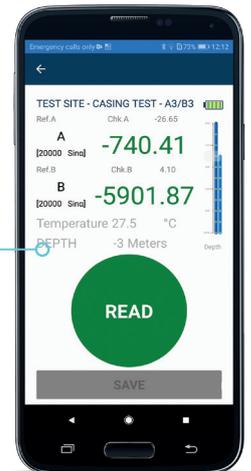


High accuracy digital MEMS sensor

User friendly mobile App



B.R.A.IN APP
compatible with:



Output data compatible with
KLION advanced data management software



Contact us!
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VERTICAL INCLINOMETER SYSTEM PERFORMANCE

	with 0S242DV3000 probe (500 mm gauge length)	with 0S242DV3010 probe (1000 mm gauge length)
Readout value	20000 sin alpha (K*sin alpha, degree, mm/m and inches/feet on request)	20000 sin alpha (K*sin alpha, degree, mm/m and inches/feet on request)
Resolution	0.011 mm / 500 mm	0.023 mm / 1000 mm
Repeatability (precision) of a complete survey along a measuring line ⁽¹⁾	± 1.5 mm / 30 m (reading step every 500 mm)	± 2 mm / 30 m (reading step every 1000 mm)

⁽¹⁾ As for ISO 18674-3, this is the "difference between the cumulated displacements of a measuring point relative to a reference point 30 m apart, when repeatedly carrying out the survey under repeatability conditions. (...) The values are specified for measurements in the A-axis. The B-axis measurements are commonly less accurate."

MAIN TECHNICAL SPECIFICATIONS

PROBE

Sensor type	vertical MEMS inclinometers
Measuring range	±30°
Accuracy: Lin. MPE ⁽²⁾ Pol. MPE ⁽²⁾	±0.07% FS ±0.01% FS
Other built-in sensors	Temperature, Humidity, Supply voltage
Gauge length (distance between wheels)	500 mm or 1000 mm
Temp. operating range	-30°C to +70°C
IP rate	IP68 up to 2.0 MPa
 compliant directive	2014/30/EU (EMC)

BRAIN READOUT

Communication protocol	BLE (Bluetooth Low Energy) 4.2
Built-in sensors	Temperature, Humidity, Battery voltage
Operating temperature	-40 to 80°C (batteries -20 to 65°C)
Communication with digital probe	RS485 Modbus RTU Protocol ⁽³⁾
IP rate	IP65
Power supply	4 x 1.2 V - 5 Ah - Ni-MH rechargeable batteries
Operating time with NiMH batteries ⁽⁴⁾	≈ 96 h with inclinometer and spiral probe
Led	Different colors for local notifications
Minimum device requirements (device NOT supplied by SISGEO)	BLE Bluetooth Low Energy 4.2 ANDROID OS V. 7 or higher APPLE iOS 11 or higher
 compliant directive	2014/53/EU (RED)

⁽²⁾ MPE is the Maximum Permitted Error on the measuring range (FSR). In the Calibration Report, the accuracies of the gauge are calculated using both linear regression (\leq Lin. MPE) and polynomial correction (\leq Pol. MPE). ⁽³⁾ RS485 not-optoisolated Modbus communication with RTU Protocol ⁽⁴⁾ Typical values