SHAFTALIGN® OS3 – Technical data

Parameter	SHAFTALIGN® OS3
Computer	
CPU	Intel XScale PXA270 running at 520 MHz
Memory	64 MB RAM, 64 MB Flash
Display	3.5" TFT, transmissive (sunlight-readable) 65 535 colours, backlit LED Resolution: 320 x 240 Pixel
Keyboard elements	Up, Clear and Menu Alphanumeric keyboard Five extra hard keys (Dimensions, Measure, Results, Soft foot, Live Move)
LED indicators	Multicolour LED for laser status and alignment condition Multicolour LED for battery status
Power supply	Disposable batteries: 5 x 1.5 V IEC LR6 ("AA"); Operating time: 9 hours* (typical use) Lithium-ion rechargeable battery: 7.4 V / 2.6 Ah; Operating time: 17 hours* (typical use) *Based upon an operating cycle of 33% measurement, 33% computation and 33% 'sleep' mode.
External interface	RS232 (serial) sensALIGN 3 sensor USB host, USB slave, AC adapter/charger socket Integrated wireless communication, class 1 connectivity, transmitting power 100 mW
Environmental protection	IP 65 (dustproof and water spray resistant) Shockproof Relative humidity 10% to 90%
Temperature range	Operation: -10 °C to 50 °C (14 °F to 122 °F) Storage: -20 °C to 60 °C (-4 °F to 140 °F)
Dimensions	Approx. 220 x 165 x 45 mm (8.7" x 6.5" x 1.8")
Weight	742 g (1.64 lb)
sensALIGN® 3 Laser /Sensor	
Measurement principle	Coaxial, reflected laser beam
Detector	Measurement area: unlimited, dynamically extendible Resolution: 1 µm Accuracy (avg): > 98%
Laser	Type: Semiconductor laser diode Wavelength (typical) 670 nm (red, visible) Safety class: Class 2 according to IEC 60825-1:2007 Beam power: < 1 mW Beam divergence: < 0.3 mrad Safety precautions: Avoid looking directly into laser beam
Inclinometer	Measurement range: 0° to 360° Resolution: 0.1° Error at 22 °C (Ta): ± 0.30% read out
Environmental protection	IP 67 (submersible, dustproof) Relative humidity: 10% to 90%
Ambient light protection	Yes
Temperature range	Operating temperature: -10 °C to 55 °C (14 °F to 131 °F) Storage temperature: -20 °C to 80 °C (-4 °F to 176 °F)
Dimensions	Approx. 107 x 70 x 49 mm (4 1/4" x 2 3/4" x 2")
Weight	Approx. 177 g (6 1/2 oz.)
Reflector	
Type	90° roof prism
Accuracy (avg)	> 99 %
Dimensions	Approx. 100 x 41 x 35 mm (4" x 1 5/8" x 1 3/8")
Weight	Approx. 65 g (2 1/2 oz.)
BT Module	
Details	Class 1, wireless data transmission Transmitting power: 100 mW Transmission distance: up to 10 m (33 ft.) Complies with FCC rules part 15.247
LED indicators	1 LED for Bluetooth communication 3 LEDs for battery status
Power supply	Batteries 2x 1.5 V IEC LR6 ("AA") Operating time: 14 hours typical use (based upon an operating cycle of 50% measurement, 50% standby)
Temperature range	Operating temperature: -10 °C to 50 °C (14 °F to 122 °F)
Environmental protection	IP 65 (dustproof and water spray resistant) Relative humidity: 10% to 90%
Dimensions	Approx. 81 x 41 x 34 mm (3 1/8" x 1 11/16" x 1 5/16")
Weight	Approx. 133 g (4.7 oz.) including batteries and cable