TECHNICAL DATA

Prüftechnik OptAlign Touch Laser Shaft Alignment Tool

Key features

- User-friendly interface that guides users on how to measure and align machinery
- Single laser technology provides highly accurate measurements every time
- Allows simultaneous real-time machine corrections in both horizontal and vertical directions
- Automatic collection of alignment data during shaft rotation
- WiFi and Bluetooth connectivity for easy measurement sharing and team collaboration
- Covered by Fluke Reliability Extended Warranty Program

Product overview: Prüftechnik OptAlign Touch Laser Shaft Alignment Tool

The Prüftechnik OptAlign Touch from Fluke Reliability is the go-to tool for straightforward, quick, and precise laser shaft alignment jobs, making it an essential tool for any maintenance workshop and service team. Designed for standard machines and everyday tasks, OptAlign Touch combines hardware (the touch handheld device) software (Prüftechnik SensAlign 5 sensor/laser heads) and WiFi connectivity to deliver precise alignment data via the cloud.

Simple to use for daily alignment jobs

OptAlign touch was designed by some of the world's leading alignment experts to solve problems in the easiest way possible. This tool is therefore extremely user-friendly as the touchscreen computer intuitively guides you through the process. Users just need to follow the three steps for any laser shaft alignment procedure: dimensions, measure, and result. Uncomplicated and simple to understand.

Easiest mounting, accurate measuring and alignment in the field

Single-laser technology SensAlign 5 featuring continuous Sweep mode, Live Move, and InfiniRange simplifies setup and improves measurement accuracy.

InfiniRange extends the effective measurement range significantly. Continuous Sweep mode gathers alignment data automatically during shaft rotation. Like Move lets you monitor and make simultaneous real-time machine corrections in both horizontal and vertical directions.

Together, these features save time and offer guidance at each step, making the tool adaptable for users of varying experience levels.

Touch screen device is made for maximum durability

It is waterproof and dust-proof according to IP65. It is also shock-proof, oil, dirt and scratch resistant.

Enjoy peace of mind with Fluke's Extended Warranty

The Fluke Reliability Extended Warranty Program gives you extended warranty coverage, calibration services, and exclusive discounts so that you can enjoy better device accuracy and savings.

Specifications: Prüftechnik OptAlign Touch Laser Shaft Alignment Tool

Specifications OPTALIGN touch device	
Dimensions	**Approx. 273 x 181 x 56 mm (10 3/4" x 7 1/8" x 2 3/16")**
Weight	Approx. 1.88 kg (4.1 lbs)
Display	Technology: Projective capacitive multi-touch screen Type: Transmissive (sunlight-readable) backlit TFT color graphic display Optically bonded, protective industrial display, integrated light sensor for automated adjustment of the brightness to the display. Resolution: 800 x 480 Pixel Dimensions: 178 mm (7") diagonal
Camera	5 MP built-in (depending on configuration)
CPU	Processor: 1.0 GHz quad core ARM® Cortex-A9 Memory: 2 GB RAM, 1 GB Inteal Flash, 32 GB SD-Card Memory

Specifications OPTALIGN touch device	
Power supply	Operating time: 12 hours typical use (based upon an operating cycle of 25% measurement, 25% computation, 50% 'sleep' mode) Baery: Lithium-ion rechargeable baery 3.6 V / 80 Wh AC adapter/ charger: 12 V / 36 W; standard barrel connector (5.5 x 2.1 x 11 mm)
LED indicators	3 LEDs for baery status 1 LED for WiFi communication
Temperature range	Operation: 0°C to 40°C (32°F to 104°F) Charging: 0°C to 40°C (32°F to 104°F) Storage: 10°C to 50°C (14°F to 122°F)
Environmental protection	IP 65 (dustproof and water jets resistant) as defined in regulation DIN EN 60529 (VDE 0470-1), shockproof Relative humidity: 10% to 90
Drop test	1 m (3 1/4 ft)
Carrying case	Standard: HPX® Harz, drop tested (2 m / 6 1/2 ft.) Dimensions: Approx. 551 x 358 x 226 mm (21 11/16" x 14 3/32" x 8 29/32") Weight: Including all standard parts - Approx. 11 kg (24.3 lb)
Exteal interface	USB host for memory stick USB slave for PC communication, charging (5 V DC / 1.5 A) RS-232 (serial) for sensor, RS-485 (serial) for sensor I-Data for sensor Integrated Bluetooth® wireless communication (covers direct line of sight distances of up to 30 m / 100 ft depending on the prevailing environmental conditions) Integrated Wireless LAN IEEE 802.11 b/g/n up to 72.2 Mbps (depending on configuration) Integrated RFID with read and write capabilities (depending on con-figuration)
Specifications sensALIGN® 5 sensor	
Dimensions	**Approx. 105 x 74 x 58 mm (4 9/64" x 2 29/32" x 2 1/4")**
Weight	Approx. 235 g (8 1/3 oz.)
Type	5-axis sensor: 2 planes (4 displacement axes and angle) Measurement area: unlimited, dynamically extendible Resolution: 1 µm (0.04 mil) and angular 10 µRad Accuracy (avg): > 98% Measurement rate: approx. 20 Hz
Inclinometer error	0.3% full scale
Inclinometer resolution	0.1°
LED indicators	1 LED for laser adjustment and baery status 1 LED for Bluetooth® communication
Power supply	Baery: Lithium-Ion rechargeable baery 3.7 V / 5 Wh Operating time: 10 hours (continuous use) Charging time: Using charger – 2.5 h for up to 90%; 3.5 h for up to 100%; Using USB port – 3 h for up to 90%; 4 h for up to 100%
Exteal interface	Integrated Bluetooth 4.1 Smart Ready wireless communication USB 2.0 Full Speed
Environmental protection	IP 65: dustproof and water jets resistant, shockproof Relative humidity: 10% to 90%
Ambient light protection	Yes
Temperature range	Operation: -10°C to 50°C (14°F to 122°F) Charging: 0°C to 40°C (32°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F)

Specifications sensALIGN® 5 laser	
Type	**Semiconductor laser diode**
Dimensions	Approx. 105 x 74 x 47 mm (4 9/64” x 2 29/32” x 1 27/32”)
Weight	Approx. 225 g (7 15/16 oz.)
Beam power	< 1mW
Beam divergence	0.3 mrad
Wavelength	630 – 680 nm (red, visible)
Laser class	Class 2 according to IEC 60825-1:2014 The laser complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. Safety precaution: Do not look into laser beam
Inclinometer resolution	0.1°
Inclinometer error	0.3% full scale
Temperature range	Operation: -10 °C to 50 °C (14 °F to 122 °F) Storage: -20 °C to 60 °C (-4 °F to 140 °F)
Protection	IP 65 dustproof and water jets resistant, shockproof Relative humidity: 10% to 90%
Power supply	Baeries 2 x 1.5 V IEC LR6 (“AA“) Operating time: 180 hours

Ordering information

Optalign Touch

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Fluke. *Keeping your world up and running.®*

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