

831

Laser Shaft Alignment Tool

Safety and General Information

Contact

Fluke Corporation operates worldwide. For local contact information, go to our website: www.fluke.com.

To register your product, view, print, or download the latest manual or manual supplement, go to our website.

Contents subject to change without further notice, particularly in the interest of further technical development.

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	Indicates a Class 2 laser. DO NOT STARE INTO BEAM. The following text may appear with the symbol on the product label: "IEC/EN 60825 1:2014. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice 50, dated June 24, 2007." In addition, the following pattern on the label will indicate wavelength and optical power: $\lambda = 650\text{nm}$, $<1\text{mW}$.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation
	Conforms to European Union directives.
	This product complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.
	Denotes that the product is made of parts that are recyclable.

General safety

A **Warning** identifies conditions and procedures that are dangerous to the user.

A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Warning

To prevent possible electrical shock, fire, or personal injury:

- Read all safety information before you use the product.
- Carefully read all instructions.
- Do not alter the product and use only as specified, or the protection supplied by the product can be compromised.
- Do not use the product around explosive gas, vapor, or in damp or wet environments.
- Use only Fluke approved power adapters to charge the battery.
- Do not use the product if it operates incorrectly.
- Use only specified replacement parts.
- Have an approved technician repair the product.
- Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.
- Do not look into the laser. Do not point laser directly at persons or animals or indirectly off reflective surfaces.
- Use the product only as specified or hazardous laser radiation exposure can occur.
- Do not open the product. The laser beam is dangerous to the eyes. Have the product repaired only through an approved technical site.

Caution

- As with any software that processes data, data may be lost or altered under certain circumstances. Fluke strongly recommends that you keep a backup or printed record of all important data.
- Fluke assumes no liability for data lost or altered as a result of improper use, repairs, defects, battery replacement/failures or any other cause.
- Fluke assumes no responsibility, directly or indirectly, for financial losses or claims from third parties as a result of use of this product and any of its functions, such as loss or alteration of stored data.

Safety specifications

Complete specifications are at www.fluke.com

Power supply

Tablet	Lithium-ion rechargeable battery: 3.85 V, 19.44 Wh
Sensor	Lithium-ion rechargeable battery: 3.7 V, 5 Wh
Charger	Input: 100-240 V, 50-60 Hz, 0.45 A Output: 5 V, 3.2 A, 16 W

Temperature range

	Tablet	Sensor	Reflector (prism)
Operation	0°C to 35°C (32°F to 95°F)	-10°C to 50°C (14°F to 122°F)	-20°C to 60°C (-4°F to 140°F]
Storage	-20°C to 50°C (-4°F to 122°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 80°C (-4°F to 176°F]
Charge	0°C to 35°C (32°F to 95°F)	0°C to 40°C (32°F to 104°F)	Not applicable

IP rating

Tablet	IP 68 (dustproof, submersible 1.5 m)
Sensor	IP 65 (dustproof and water jets resistant)
Reflector (prism)	IP 67 (dustproof, submersible 1 m)

Laser	IEC 60825-1: Class 2, 650nm, <1mW
-------	-----------------------------------

Electromagnetic Compatibility

International	<p>IEC 61326-1: Basic Electromagnetic Environment; IEC 61326-2-1</p> <p>CISPR 11: Group 1, Class A</p> <p>Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.</p> <p>Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.</p> <p>Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.</p> <p>Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object. The equipment may not meet the immunity requirements of this standard when test leads and/or test probes are connected.</p>
Korea (KCC)	<p>Class A Equipment (Industrial Broadcasting & Communication Equipment)</p> <p>Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.</p>
USA (FCC)	<p>47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.</p>
Radio frequency certification	<p>Contains FCC ID: QOQBT121;</p> <p>IC: 5123A-BGTBT121</p>
Frequency	<p>2412 MHz to 2462 MHz</p>
Output power	<p>100 mW</p>

Sensor care and handling

The product is a calibrated measurement instrument. Do not drop the product and avoid mechanical abuse that could cause a shift in the calibrated settings.

Storage

Use the provided case to transport the system. If the sensor and reflector are mounted on standard brackets while within the case, do not turn the brackets upside down when removed from the case. Keep the brackets upright to reduce the risk that the components will fall to the ground in case that they have not been fastened to the support posts.

If the system is not used for an extended period, the system components must be stored in a cool, dry and well-ventilated location.

For storage temperature limits, see the specifications section.

Care

The sensor lens and the rugged tablet display must be kept clean. Use the supplied cloth to clean the lens. DO NOT clean the lens too vigorously because this can damage the anti-reflective coating. Wipe the sensor housing and the rugged computer protective holster with a soft cloth dampened with a mild detergent. Do not use abrasives or solvents. Use a soft lint-free dry cloth to clean the display.

Maintenance

Although the system is essentially maintenance-free, these points should be observed:

- Fluke recommends the calibration accuracy be checked every 2 years.
- Please return the sensor to an approved technical site for inspection by the indicated date.

Disposal

Dispose of old devices in a professional and environmentally sound manner.

- Delete personal data on the product before disposal.
- Remove batteries that are not integrated into the electrical system before disposal. Dispose of batteries separately.

Rotating equipment

Make sure machines are locked out, tagged out, and cannot be started accidentally or deliberately during maintenance.

sensALIGN 3 sensor approvals

Visit fluke.com for more information.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Fluke declares that the radio equipment contained in this product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: <http://www.fluke.com/red>.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for two years from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.