

OPTALIGN® smart EX

Maintaining high standards in machinery alignment



• System and case fully certified for hazardous areas (ATEX/IECEx)

• Alignment of horizontal and vertical machines

• Easy to use with intuitive user interface

• Automatic measurement with SWEEP mode

• 'Smiley' for alignment condition check

• Save PDF reports to USB memory stick

• EX certified wireless RF module (option)

OPTALIGN® smart EX



Standard features

- Alignment of horizontal, vertical and flange-mounted machines
- Alignment of coupled, uncoupled and nonrotatable shafts
- Soft foot check – measure, correct and save results
- UniBeam for quick adjustment of the single laser beam
- Continuous SWEEP measurement mode automatically activated as shaft is rotated – start and stop rotation at any position
- Automatic evaluation of alignment condition with TolChek® and user-defined tolerances
- InfiniRange® extends detector measurement range to handle gross misalignment
- QuickCheck – uses a single dimension to display both horizontal and vertical coupling values
- Static measurement mode – requires any 3 of the 8 available 45° measurement positions
- Live monitoring of horizontal and vertical machine corrections
- Result table to verify measurement repeatability
- Save up to 500 measurement files in the device
- Save measurement reports as PDF to a USB memory stick
- Data protection - auto save and resume capability
- Alignment of 6-foot machines
- Checking the effects of pipe strain on shaft alignment
- High resolution backlit colour TFT screen

Continuous SWEEP mode

SWEEP mode – As the shaft is rotated, data is automatically and continuously collected.

OPTALIGN® smart EX determines the alignment condition with a shaft rotation of as little as 60°. Measurement can start at any shaft position and in any direction. This mode is quick and captures hundreds of measurement points, hence more accurate than the 3-clock positions measurement method. Most rotating machines require an accuracy close to that attained by the continuous SWEEP mode.



Powerful options

- RF module for wireless data transmission
- 3-machine train alignment
- Enter alignment targets and thermal growth values including input of dial indicator readings
- Fixed feet selection – resolves base-bound and bolt-bound problems
- Multipoint mode – measurement at any 3 or more positions over 60° rotation or wider
- Alignment of cardan and spacer shafts
- Heavy-duty rechargeable Li-Ion battery
- PC software ALIGNMENT CENTER is used for preparing, analyzing, archiving measurement files and printing professional reports

Automatic evaluation of alignment

TolChek® – Dynamic tolerances evaluate the alignment condition based upon the machine RPM. The LEDs and Smiley provide visual indication of the alignment condition and the update status during machine correction.



The OPTALIGN® smart RF module allows wireless data transmission from the sensor to the computer.

Alignment results in 3 steps:

1. Enter dimensions
2. Rotate shafts
3. Display alignment condition



Wireless communication



Easy to use



TolChek®



For industrial use



OPTALIGN®, TolChek® and InfiniRange® are registered trademarks of PRÜFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRÜFTECHNIK Dieter Busch AG. The information contained in this leaflet is subject to change without further notice due to the PRÜFTECHNIK policy of continuous product development. PRÜFTECHNIK products are subject to patents granted or pending throughout the world. ISO 9001:2008 certified.
© Copyright 2016 by PRÜFTECHNIK AG.



PRÜFTECHNIK
Condition Monitoring GmbH
Oskar-Messter-Str. 19-21
85737 Ismaning
Germany
Tel: +49 89 99616-0
Fax: +49 89 99616-200
info@pruftechnik.com
www.pruftechnik.com

A member of the PRÜFTECHNIK group