SMF/CLC - CALIBRATION TOOL for SMF/PAPI

FULLY ASSISTED OPERATIONS

SMF/CLC is an high precision laser level with USB connectivity and proprietary software that permits the automatic calibration of a SMF/PAPI instrument. Operator is step by step assisted by the system software during the calibration procedure

RELIABLE OPERATION

SMF/CLC integrates a two parallel laser beams reference source able to automatically detect any calibration/alignment error in the instrument

DOCUMENTATION

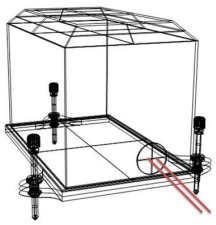
The system includes System Manual, Operating Manual, Software Manual.
Test data report and Calibration Certificates

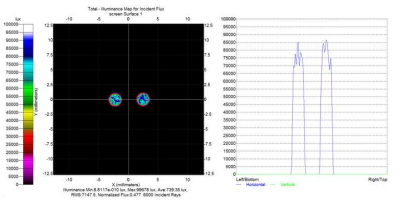
TRAINING COURSE

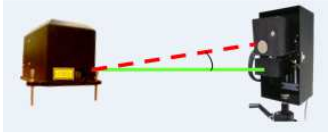
A complete training course covers all the installing, operating, reporting and maintenance issues allowing the customer to reach the complete control of the instrument.

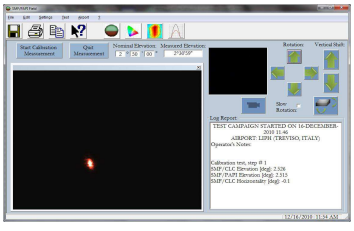
- Two steps semi automatic assisted procedure for SMF/PAPI calibration
- High precision laser level with USB connectivity
- Proprietary dedicated software
- Double-laser beam feature
- Calibration error: 10 arc-seconds
- Inclinometer non-linearity error: ≤7 arc-seconds
- Temperature drift error: ≤8 arc-seconds
- Self diagnostic automatic calibration evidence

SMF Collimated Laser Calibrator (SMF/CLC) is the tool for calibrating the SMF/PAPI instrument during the Elevation and the Chromaticity/Intensity Tests. This instrument is a new generation laser level that guarantees the positioning of a laser beam with a stable and affordable inclination regarding the horizon. The accuracy of such elevation is below 15 arc-seconds at any environmental temperature to guarantee that the reference beam maintain the alignment with respect to the level of bench axis. The SMF/CLC optical beam elevation is measured by a high precision electronic inclinometer placed in the same frame of reference as the generated laser beam. SMF/CLC innovative optics permits the self-detection and diagnostic of any misalignment between the laser and the inclinometer of the calibration tool. Three external precision adjustment screws are used to position the SMF/CLC in horizontal position first and then to the requested elevation, while the current elevation and horizontality angles are provided in real time on the instrument display. A USB connection communicates with the same notebook provided with the SMF/PAPI instrument. The system software simultaneously detects the SMF/CLC elevation angle and horizontality as well as the SMF/PAPI instrument measurement results. On the basis of data received a new calibration record is created and updated into the SMF/PAPI instrument memory.







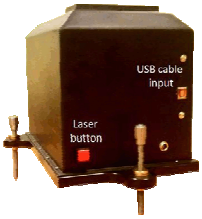


Characteristics

In order to re-calibrate the SMF/PAPI, a 2 step automatic elevation test is required, measuring the laser beam at 3° and 6° approximately (proper values are displayed by the system software). The provided calibration software executes the tests automatically and calculates new calibration parameters for the SMF/PAPI instrument.

Specifications

Beam elevation range (continuous regulation)	**0°to 10°**
Accuracy on beam elevation	±15 arc-seconds = 0.0052 deg
Operating temperature	+0 ℃ to +35 ℃
Storage temperature	-10 ℃ to +70 ℃
Power supply	110/220 V AC
Power consumption	less than 16 W
Laser output	Class II, visible red dot, 630 nm
Pointing accuracy	± 0.1 mm/m
Dimensions	295 x 230 x 165 mm
Weight	3 kg



AUTO DIAGNOSTIC

The system holds automatic diagnostic routines to check the instrument status

TECHNICAL SUPPORT

Argos technical support assists customers during the whole system lifetime

For further information on our products and services please see our website:
www.argosingegneria.com

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