

SMF / LAB-CHS

AGL Workshop Photometric Instrument

DATABASE

All information are stored in System Database, such as:

- Fixture type under test
- Manufacturer
- Part and serial numbers
- Measured data
- Diagrams
- Historical data

REPORTING

System provides a complete reporting of measurements results as:

- Isocandela Diagram
- Beam Alignment
- Raw Data presentation
- Color
- ICAO/EASA requested parameters
- Conformity report

EASY TO USE

No special installation works required
 Automatic double side lights measurement
 User friendly system interface

DOCUMENTATION

Operating and Maintenance Manuals. Calibration Certificates, Software License Agreement.

TRAINING

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



SMF/Lab-CHS is the photometric measurement system designed and manufactured by ARGOS INGEGNERIA to operate in the workshop of AGL airport maintenance department.

It works applying the horizontal scanning method, where the sensing bar is steady in a vertical position while the light fixture rotates on a turntable allowing to scan both light sides in less than 45 second.

SMF/Lab-CHS system is especially addressed to customers already equipped with ARGOS's mobile system SMF/M, as the same 17 sensors array measurement bar may be used in both mobile and workshop operations.

SMF/Lab-CHS is compatible with halogen and LED type fixtures. It is suitable to check fixtures after repair and refurbishment or to assess new fixtures before first installation.



The data flow coming from the high resolution horizontal scanning is fully controlled by a friendly user application software which includes all the functions necessary to create system data base, set up the system parameters, compute, save and display the results of measurements, displaying all light parameters, including:

- beam average intensity in candelas, maximum and minimum intensity,
- beam elevation, toe-in and ISOCANDELA diagram according to ICAO Annex 14/EASA reference grid requirements.



Steps of measurement process may be also controlled through a dedicated console, particularly when the system is operated in the dedicated darkening tunnel.

The high accuracy of SMF/Lab - CHS makes the system also suitable to certificate the performances of all inset and elevated fixtures at the final stage of a AGL manufacturing production line.

A special 1000 VA AC laboratory power supply (CCR) for halogen and LED type AGL lights is available on request.



SMF/Lab-CHS may operate in a darkened room or inside the dedicated tunnel available on request.



DIAGNOSTIC

Self- diagnostic continuously checks instrument's components with real-time alert messages.

INSTALLATION

Special aluminum rail for easy and steady installation

Dark tunnel available

TECHNICAL SUPPORT

Argos technical support assists customers during the whole system lifetime for repair, calibration and upgrading of photometric products

More information on products and services at our website:
www.argosingegneria.com

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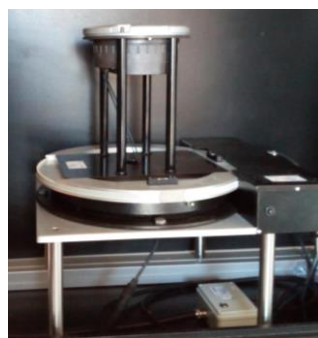
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SMF/CHS has a measuring bar with 17 (CHS) light intensity sensors and 1 CIE 1931 color sensor. SMF/CHS provides a robust self-standing motorized turntable to drive the rotation of the fixture under measurement. The rotating platform is controlled by system PC, and monitored by an high resolution encoder. Both sides of light fixture may be measured with a single turn.



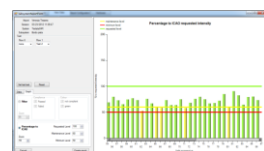
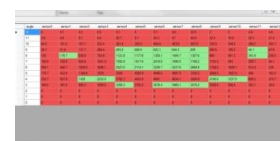
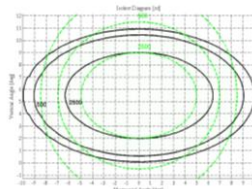
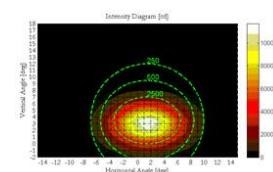
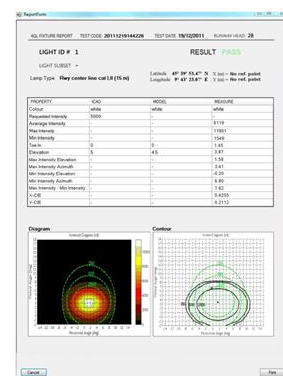
A set of adapters is provided to fit elevated and inset fixtures to SMF/LAB-CHS scanning method



On customer request, SMF/LAB may be delivered with a dedicated portable dark room, composed by wooden panels, which includes the control console.

Main technical specifications

- High precision microprocessor controlled motorized turntable subsystem / vertical scanning subsystem
- 17 LUX sensors measuring bar with continuous acquisition method at step of 2' of arc-degree
- LUX sensors acquisition with 0.25 LUX resolution
- High speed electronics for sensors oversampling with 16 bits ADC
- 1 color measuring device conforming CIE 1931 recommendation (ICAO 2016 /EASA)
- 7 x 13 (ICAO), 13 x 13 or continuous grid points diagram
- Average, maximum and minimum values (CD) of beam intensity measurement
- Vertical and horizontal angle measurement
- Manual operations panel
- Measurement steps control console (option)
- Dedicated darkening tunnel (option)
- Power consumption: 100 W max. including system PC
- Accuracy : < 3%
- Repeatability : < 2%
- System software compatibility with SMF ARGOS products family
- Integrates the SMF/M hardware and software technologies approved by Italian CAA ENAC



MAIN REFERENCES

Bangladesh,

Denmark, Dubai,

Egypt, Korea,

India, Italy,

Spain,

Russian Federation,

Taiwan, Thailand,

Turkey