

Calibration Laboratory

Oman

Tender:	Calibration Laboratory for Relative Humidity and Barometric Pressure
Client:	PACA Public Authority for civil Aviation - DGMet

PACA

has a mission to regulate all aspects of civil aviation activities in line with international standards ensuring safety, security and environmental protection. DGMet is section of PACA dealing with building, operation and maintenance of all facilities for Meteorological observation in Oman.



Our cooperation with DGMAN (PACA) lasts almost 20 years. We have participated in number of DGMAN projects, such as building national network of Automatic Weather Stations, Airport Weather Observation System for Seeb and Salalah International Airports, Small Airport Weather Observation System for military bases Khasab and Thumrait, Climatological Database, Marine Systems in Sohar and Raysut and other projects where we have delivered both equipment, as well as transfer of our know-how.

In the latest period, we have delivered calibration laboratories for hygrometers and barometers, i.e. for sensors which measure relative humidity and air pressure. Their proper operation is supported by sophisticated software IMS4 Caliblab.

Product description

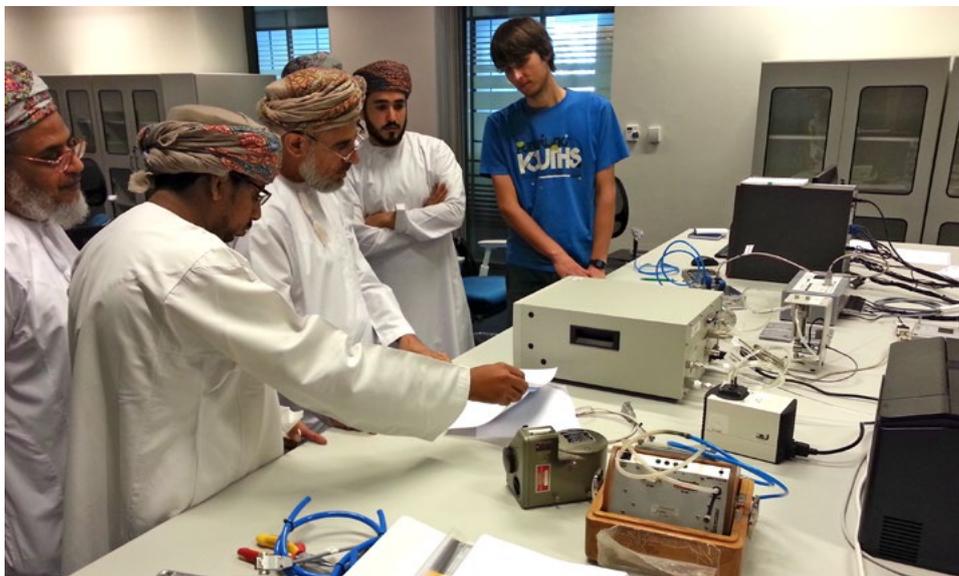
IMS4 CalibLab is a complex, intuitive and easy to use calibration laboratory software. It brings the possibility to calibrate relative humidity, barometric pressure, temperature and other quantities, using a unified and

modular software. Thanks to automation, it supports multiple calibration chambers and devices. IMS4 Caliblab is capable of automatic adjustment of the sensors.

During implementation of automated calibration laboratory, it was crucial to ensure, that this project had user friendly interface and ability of automatic adjustment of sensors by Microstep-MIS, as well as other manufacturers. Our task was also to train the staff to understand the system and become competent in its proper operation.

Implementation

MicroStep-MIS have designed a complete system beginning with hardware and ending with our new IMS4 Caliblab software. We had selected and implemented dynamic pressure calibrator with built-in reference barometer for calibration of pressure. For the calibration of relative humidity, dynamic relative humidity calibrator with built-in chilled mirror reference had been selected and also implemented within complete system.



We have successfully designed and implemented IMS4 Caliblab software. Factory training, on-site installation and training had been performed.

The customer is now able to calibrate and adjust electronic barometers and hygrometers using an automated process thus saving valuable time and cost in performing these operations.