www.alfanar-calibration.com





alfanar calibration Lab.



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Our commitment to quality makes a difference you can measure



Calibration Lab

alfanar Calibration Laboratory, a GAC and IAS accredited and an ISO 17025 certified laboratory, is a well-equipped, electrical and mechanical instrument and equipment calibration center.

alfanar Calibration Laboratory guarantees the efficiency of your instrument and test equipment and provides, full-service lab and on-site services. For accurate and reliable results, we have invested significantly in hi-tech and modern equipment that conform to international standards.

The lab's calibration services conform to the highest regulatory and audit requirements of various industries, like Utilities, Oil & Gas, Food & Beverage Industry, Aerospace and Transportation, Heavy Industries, Manufacturing Industries, Petrochemicals, etc... Our Calibration services are technically evaluated and approved by Utilities and major clients.

alfanar Calibration Lab is a specialized independent unit within alfanar Engineering Services which is a part of the alfanar group of companies.





Our Competitive Edge



- Our laboratories are environmentally controlled, ensuring the correct atmosphere for the precise measurements.
- Calibrate a wide range of electrical or mechanical instrument and equipment in our centralized facility
- Our Laboratory's ultramodern facility is accredited by International Accreditation Service (IAS) and the Gulf Accreditation Committee (GAC)
- Our services are in full compliance with the ISO IEC 17025 Standards
- Every measuring instrument calibrated/recalibrated by alfanar Calibration Lab receives a certificate listing the
 calibration result and uncertainties. Further, the records are maintained for at least 5 years enabling us to
 send you periodical reminders
- Our trained technicians can: Calibrate instruments ranging from the simplest meter to the most complex multifunction calibrator. If defective it can be sent to the centralized workshop for repair



Accreditation & Approvals









Laboratory Calibration Services



Our focus and commitment to excellence have made us one of the largest and leading calibration and repair solutions provider in the region.

We attribute our success to the modern techniques, value for money and the quality driven service!

In addition, our high-quality calibration laboratory services include documentation to satisfy your industry and regulatory or audit requirements.

Our well-equipped lab implements the use of various parameters to ensure that the instrument sent to us for calibration and repair are thoroughly checked and rectified so that you can be assured of an optimum accuracy on the machines that we have calibrated at our lab.

Huge investment in manpower to guarantee resource availability for on-site work & loop check.



Instrument Calibrated

- Multifunction calibrators
- Precision Multimeters
- Oscilloscopes
- Power & energy meters

Calibration Range: AC/DC volt up to 1000V;

• Resistance up to 100 G Ω ;

• Capacitance up to 1 mF. **Calibration Method Used:**

Frequency measurement up to 3 Ghz;

EURAMET cg-15-version 3.0 (02/2015)

- Insulation testers

• AC/DC current up to 10 A direct & 1000 A clamped;

- HV Machines
- HV Trailers
- Tan Delta Equipment



Some Equipment /

Calibrated

- Thermographic Cameras
- IR Temperature equipment

Calibration Range: • -100°C Up to 700°C.

- Infrared thermometer up to 900°C.
- · Humidity.

Calibration Method Used:

ITS-90



Pressure

Calibration Range:

BS EN 837-1:1998

• -1 bar Up to 1400 bar Hydraulic;

• -1 bar up to 200 bar pneumatic.

Calibration Method Used:

- Thermographic Cameras
- IR Temperature equipment



Some Equipment /

- **Dead Weight Testers**
- Pressure Gauges
- Calibrators

- **Dead Weight Testers**
- Pressure Gauges







Torque

Calibration Range:

- Up to 65 Nm generation
- Up to 1500 Nm generation;Up to 3000 Nm measuring

Calibration Method Used:

BS EN 6789:2003

Instrument Calibrated

- Torque testers
- Torque transducers
- Torque wrenches



Torque wrenches



Mass

Calibration Range:

• 1 mg up to 1000 kg.

Calibration Method Used:

OIML RIII-I 2004 (E)

- Standard weights
- Weighing balances



- Forklifts
- Platform Weighing Scales
- Cranes
- Heavy Chains



Dimension

Calibration Range:

Up to 1000 mm.

Calibration Method Used: DIN 862, 863

Some Equipment / Instrument Calibrated

- Micrometers & Vernier calipers
- Depth & height gages



- Micrometers & Vernier calipers
- Depth & height gages



Additional Capabilities



Parameter	Calibration Range
High voltage	Up to 150 kV AC/DC
Sound level	94 & 114 dB
Vibration	Displacement, velocity & acceleration
PH	PH No. 4 & 7
Coating thickness	24.1, 49.6, 124.8, 249.2, 504 & 1028 μm
Tachometer	Up to 6000 rpm
Light Meter	Up to 20000 LUX
Tensile	Up to 25 Ton
TAN DELTA	Up to 10.5
Safety valves	Up to 600 bar hydraulic, 300 bar pneumatic & 16" size
Hot loop test	-
I & C onsite calibration	-
Energy meter calibration	From various manufacturers
Power measurements including harmonics	-
Sf6 equipment	-
Gas analyzers	-
Inspection & repair	-



Onsite Calibration & Loop Checking and Instrumentation Services





alfanar calibration has the capability to service and calibrate a range of instruments at your own premises resulting in reduced turnaround time and improved efficiency. Our field service engineers to visit your facility and promptly calibrate your test equipment for accurate and precise performance.

- Capable of set up on-site lab
- ⇒ Calibration of complete plant Hot Loop test and I&C package
- ⇒ With a large resource of technical staff, mobilization of the team is available on short notice
- Our generous investments in assets and resources enables us to handle multiple activities parallelly
- Mobility to provide timely service to your facility
- On-site calibration and certification of process control instruments
- On-site calibration and related services during Plant shutdown and maintenance
- Capable of providing multiple workforces at 24/7 including night shifts to meet tight schedule

System Loop Checks:

All Calibration Services include complete control loop checking. The entire control and/or monitoring system of a process, from the input/process sensing device to the control and monitoring units to the final output device, is checked for proper operation & calibration including the provision of process calibrators and field communicator or any other required tools.

Huge resources to provide timely service at your facility



Asset Management & Recalibration Reminder Service



Through the use of advanced asset management and software we are able to offer a service which keeps track of calibration dates for equipment and for sending out the reminder reports. This is part of our commitment to calibrating equipment on time, to ensure peace of mind but most importantly to enable clients to make the right decision at the right time. Moreover, the service contracts are tailored to our meet customer's Instrumentation Service needs.

Each calibrated equipment or instrument is documented and recorded in our systems and is available for a period of 5 years. This will ensure to keep a periodic track of the service intervals of your instrument.

Industries Serviced

Oil & Gas

Petrochemicals

Construction industry

Moulds factory

Transformer factory

Low Voltage & Medium Voltage Switchgear

Cable Factories

Plastic and Paper Industry

Steel Factory

Ceramic Industry

Precast and cement Industries

Food & Beverages

Healthcare

Education

Aero & Transportation



Operational Excellence



Our Major Clients



For accurate and reliable results, we have invested significantly in hi-tech and modern equipment that conform to international standards and are approved and supported by leading manufacturers. The Lab's calibration services conform to the regulatory and audit requirements of your industry!





































alfanar Calibration Laboratory is also an authorised center for major OEMs like **MEGGER** and **Chauvin Arnoux**