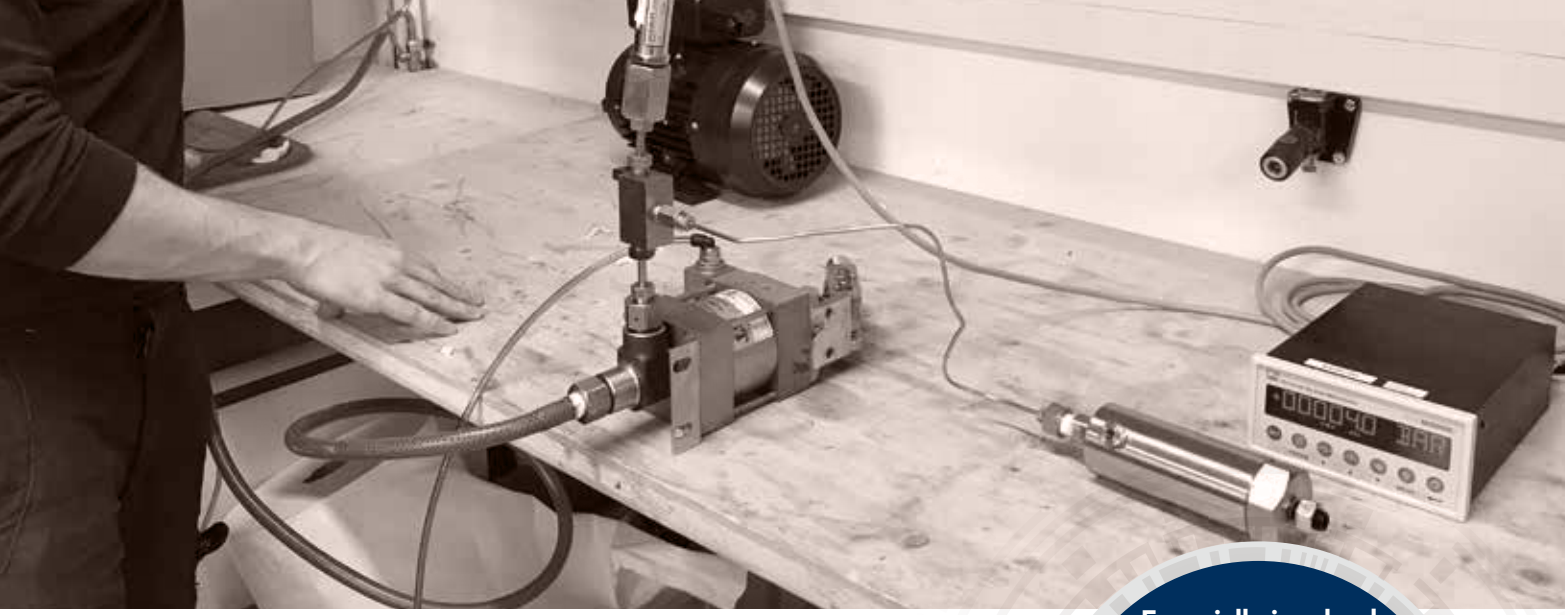


METROLOGY

CALIBRATION

Especially involved in the evolution of metrology practices

Member of AFNOR commission (X07B) and national commission office BN Pétrole (M13 commission) expert

OUR USUAL WORKING RANGE :

- Pressure (sensors, chains of measures, valves and generators) :
  - relative pressure up to 2,000 bar
  - differential pressure under static pressure 200 bar
- Temperature (sensors, chains of measures, generators and thermostatic chambers) :
  - chains of measures from -80 to 1,000 °C
  - mapping all volume (including thermostatic chambers according to FD X15-140, EN 60068-3 or ACEI method)
- Rotation speed (rotative equipment) up to 18,000 tr/min
- Displacement (LVDT, extensometers) :
  - linear displacement up to 25 mm
  - diameter from 18 to 65 mm
  - spacing from 35 to 70 mm
- Strength (compression and traction) up to 200 kN
- Debit/volume (debitmeters and volumetric pumps calibrations) : 1 to 3,000 ml/min for gas and 0.1ml/min to 80 m^3/h for liquid
- Weighing (lab scales calibration, accuracy tests, reproducibility, excentration, creep) :
  - from 50 to 5,000 g

PLEASE CONTACT US FOR NEEDS BEYOND THE ABOVE WORKING RANGES

Our calibrations are performed directly on site
Reliability of results
All of our results (including certificates of calibration) include uncertainties, key parameters to assess their reliability

WHY CALIBRATE ON SITE?

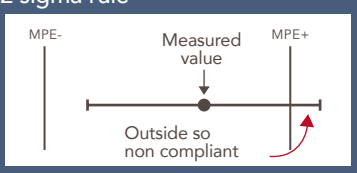
- decrease risk of damage due to transportation (during dismantling or expedition)
- calibration including workplace disturbances

Thanks to this kind of calibration, we can provide sensor or digital adjustments (on the acquisition system)

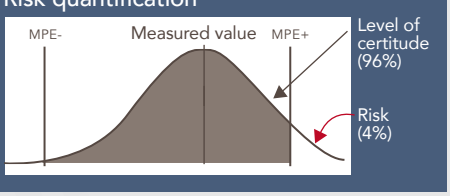
CHOICE FOR RESULT ASSESSMENT

2 methods to certify the conformity of the results

2 sigma rule



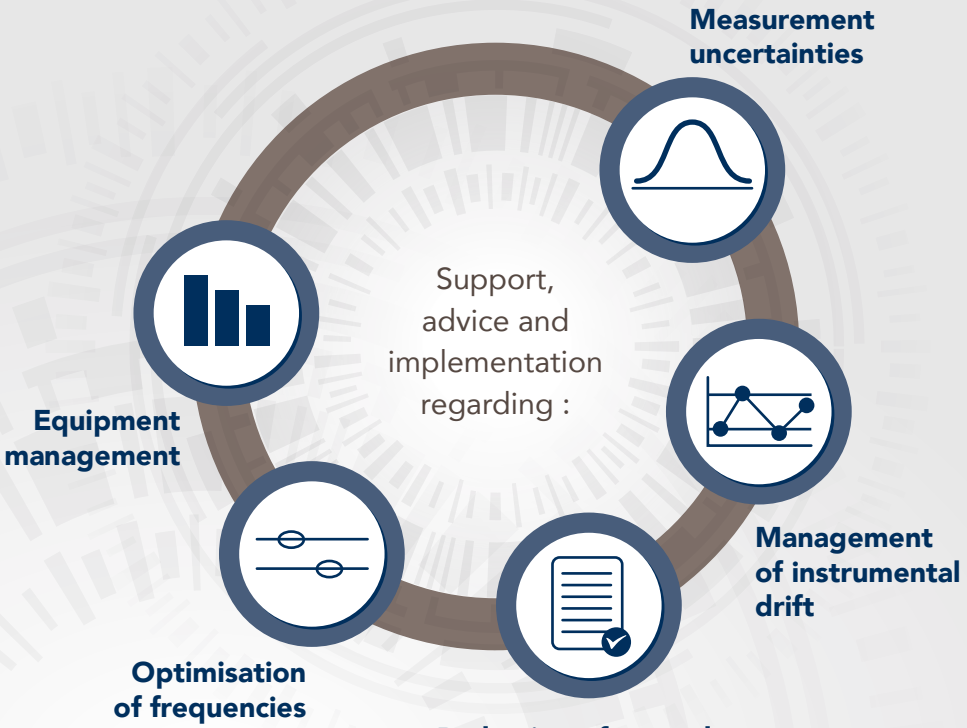
Risk quantification



ACEI L'esprit d'équipe
+ 33 5 24 36 55 48
contact@acei-services.com

SUPPORT

In parallel with our calibration services, all of our trained technicians provide the necessary tools to manage your risks and costs



TRAINING

Customised training adapted to your needs
Please contact us for more information about our detailed training programs

MEASUREMENT UNCERTAINTIES
2 levels

Goals :

- understand and apply the 5M method proposed by the GUM
- be able to estimate uncertainties on practical cases
- be able to calculate components linked to a model

From 2 to 5 days

EQUIPMENT MANAGEMENT AND OPTIMISATION OF FREQUENCIES

Goals :

- be able to implement an effective system compliant to normative requirements (ISO9001, ISO17025, ISO15189, ISO10012)
- be able to manage the subcontracting of metrological confirmations
- ensure the control of measurement process

2 days

PHYSICAL PRINCIPLES OF INDUSTRIAL SENSORS

Goals :

- be able to choose the most suitable
- be able to build a measurement chain that takes into account the specifics of the process

2 days

FOR FURTHER INFORMATION IN METROLOGY, FIND OUR NORMATIVE WATCH AND NEWS ON OUR WEBSITE **WWW.ACEI-SERVICES.COM** PART **«NEWS»**