

Onsite verification of measuring installations

Every link in the measuring chain inspected

■ Reliable measurements ensure reliable data

Increasingly, sophisticated measurements are an important source of information. They are used as input for budgeting, cost allocation, more efficient energy management and a great deal more. A minor discrepancy in measured data can have major (financial) implications for consumers. It is therefore, imperative that the accuracy of these measuring installations be guaranteed.

■ Not only the measuring device

Proper calibration of the measuring device is naturally important. But the rest of the measuring chain may impact the results. Accordingly, the whole installation needs to be inspected. Is the cable work correctly configured? Are the transformation ratios correct? Is the load exceeding the measuring installations use parameters? Are the instrument transformers being used properly?

Long story short: every link in the measuring chain must be inspected to ensure it is properly installed or properly used and calibrated in accordance with prevailing standards.

■ Knowledge of every component

Laborelec's experts leverage their expertise to swiftly identify potential bottlenecks on the high and low voltage sides of the measuring installation. Laborelec also has a well-equipped calibration laboratory displaying the most precise standards. That guarantees accurate calibration of every measuring device.

Attention to every component and the whole installation

■ Inspections

Your installation is inspected onsite, with precise examinations of the entire installation as well as each individual component.

- Inspection of the meter using a reference meter: checking voltage, current, power, power factor, rotating field and harmonic distortion, and the operation of the reading system.
- Calibration of the energy meter for both active and reactive energy.



The technical Competence Center
in energy processes and energy use.
From innovation to operational assistance.



We share our expertise with you to guarantee the proper functioning of your entire measuring installation.

- Inspection of the instrument transformers in the low-voltage network. We check the transformation ratio and the phase relation. We can do so during normal operation of the installation by using current clamps on the primary or secondary circuits.
- We verify whether the instrument transformers are being used correctly. We check, for example, that the load is not exceeding user parameters. The length and diameter of connection cables and external influences like fuses are important factors here.

■ Supplementary calibrations in the lab

We can calibrate instrument transformers in our own laboratory. Upon completion, you receive an accredited certificate.

■ Accreditations

To receive a review of the domain for which we are accredited, with corresponding margins of uncertainty, simply email alain.deffrennes@laborelec.com. We will send you a copy of our accreditation certificates at the earliest opportunity.

■ You can also rely on us for:

- Quality tests on energy meters
- Calibration of energy meters
- Calibration of instrument transformers
- Calibration of electrical measuring devices



Five reasons for you to choose Laborelec:

- you have one-stop shopping for your energy needs;
- you get access to more than 40 years of experience;
- you get rapid service with reliable solutions;
- you increase the profitability of your installations;
- you benefit from independent and confidential advice.

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