

Monitoring Power Quality

Knowledge of energy quality increases reliability

■ An accurate picture of Power Quality is crucial

Disturbances in the power supply can have an impact on your production process. It is possible to immunise your production process against these disturbances and by doing so you can considerably increase reliability. This requires an extremely accurate picture of the quality of your power supply ("Power Quality").

■ Monitoring gives the information you need

Permanent monitoring produces a detailed overview of the Power Quality. It provides all the information you need on voltage dips, harmonics, flicker, voltage dips and other disturbances. This basic information is essential if you aim to increase the reliability of your plants and make them entirely independent of electricity quality.

■ From measurement to monitoring

The first step is to install and exploit a suitable measurement device for permanent monitoring. The next thing is to read and analyse the measurement results. Laborelec provides a global service of the "All In" type. We install a quality-monitoring device and analyse the measurement results in clear and detailed reports. We will provide you with extra reports if and when incidents occur, and we will examine the sensitivity of your production process towards the measured disturbances and expertly advise you on the development of immunisation measures if required.



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



We will think along with you to monitor and optimise the quality of your electricity supply.

■ Installation, monitoring and reports

Laborelec will install and maintain a high-quality measurement device. We download the measurement results via a modem and a mobile or land telephone line, and process them using our own, powerful software.

■ Clear reports tailored to reflect your situation

Moreover, in the event of an incident on the electricity network, we will provide an extra report within two days, containing all the details of the disturbance. With this information and our recommendations, you will have a formidable array of resources at your disposal to increase the reliability of your plants appreciably.

■ Advice on immunisation

Our vast expertise in this area enables us to go further than an initial interpretation of the measurement results. We can also provide detailed recommendations on how to immunise your production process against voltage dips in the electricity supply. Together, we can develop a long-term solution to improve your production figures even further.

■ Broad spectrum of measurement parameters

We measure, process and report the following potential irregularities in the electricity supply :

- RMS values of the three voltages
- Harmonics
- Flicker
- Voltage dips and interruptions
- Voltage imbalance between phases
- Frequency

And as an option :

- Power (P, Q, S and D)
- $\cos \varphi$ & Power Factor



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Power Quality

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