

QNE ONSpyDER® Smart Grids for real.

Increasing decentralized feeding poses new challenges for the security of supply and voltage control in distribution grids.

The QNE ONSpyDER® consists of digital instrumentation, metering, data management as well as standard-communication. The QNE Profiler allows for online visualization in real time (for example voltage gradients along power lines) per Inter- and Intranet.



The ONSpyDER® suits low voltage as well as medium and high voltage installations.

Using the recommended split-core current transformers and voltage clamps, you don't even need to power down before installing.

Through our new digital calibration correction, the ONSpyDER® can reach an accuracy of the class 0,2S. Properties that used to be available only in the upper price segment, e.g. for transport grids.

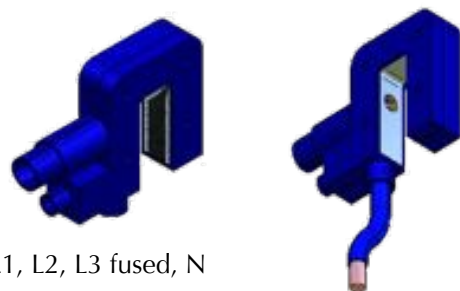
Tomorrow's energy management will happen in the distribution grid.



ELEQ split core Current Transformers with short-circuit clamps for „Hot Plug“ mounting



ELEQ Voltage Clamps for bus bars, L1, L2, L3 fused, N unsecured, „Hot Plug“, KEMA



The ONSpyDER® determines measurement packets in sub-second cycles. Each packet consists of:

- Voltage L1 true RMS
- Voltage L2 true RMS
- Voltage L3 true RMS
- Current L1 true RMS
- Current L2 true RMS
- Current L3 true RMS
- Instantaneous Real Power
- Instantaneous Reactive Power
- Grid Frequency
- Power Angle (Cos Phi)



Each measurement packet describes the measured values in the immediately preceding time interval. That means, the measured values are simultaneous.

Optionally, the ONSpyDER® also determines metering values of active work and reactive work in a bidirectional fashion.

Measured data is saved internally. Memory capacities of up to 2 years are available.

Furthermore, the ONSpyDER® streams measured values in real time over the Internet to QNE or directly to your server.

Data formats and communication:

- COMTRADE, IEC 60255-24
- IEC 61850 / IEC 61400-25
- Graphical reporting
- QNE Profiler real time visualization

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