

The latest generation of the energy - data measurement case – a multi-talent with versatile interfaces

Dear customers and interested parties,

Everybody is talking about "increased energy efficiency". Action is having to be taken at short notice – often because of directives from authorities – to identify savings potentials in existing systems in order to raise levels of energy efficiency.

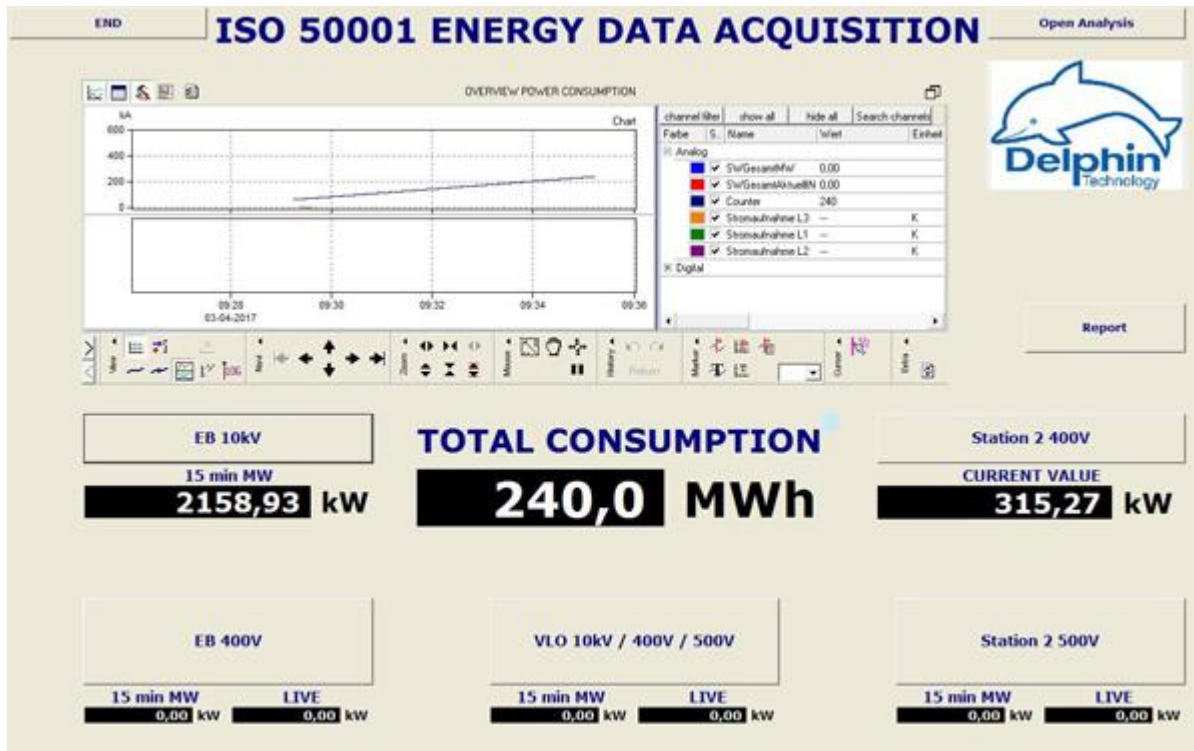
The **new energy-data measurement case** from **Delphin** is the ideal equipment for such tasks. Its versatile interfaces mean it can be easily integrated into the existing infrastructures of users. For example, **PROFIBUS** and **Modbus** interfaces enable all relevant energy data from a PLC and machine or centralised management system to be acquired and monitored.

The new energy measurement case is also equipped with a new **OPC UA** interface to enable both the universal exchange of measurement data at field level as well as **direct transmission of all acquired data to the cloud**. This makes the measurement case compatible to the needs of IoT.



The range of interfaces also means multiple power measuring devices, energy metering systems and, for example, power analysers can be connected to the **Expert Logger data logger** to give comprehensive energy monitoring. The measurement case is equipped with all the necessary transducers so that Rogowski coils can be attached for power-consumption data acquisition. The effort users require for wiring is kept to a minimum, and measuring during operation is also possible in hard to access systems as well as in cramped switch cabinets. All relevant electrical data such as *electrical power, active power, idle power, CosPhi and power consumption* can therefore be centrally acquired and instantly monitored and processed within a data logger. The **digital inputs** on the Expert Logger can also directly acquire a range of pulse data from electricity, gas and water meters and then linked to other data. Other important process parameters such as *temperatures, pressures and flows* can also be acquired and monitored synchronously with the energy data using the up to **46 analogue inputs** of the Expert Logger data logger.

The combined acquisition of energy and process data enables users to achieve comprehensive monitoring of their systems. **ProfiSignal software** can be used to clearly portray online as well as archived offline data in user-defined visualisations as trend diagrams. Users can then instantly determine and analyse all relevant key data. An overview of the current condition of the system is therefore always available and users are able to evaluate energy efficiency and optimally exploit improvement potentials.



An **internal data memory** with a capacity for up to **500 million measurement values** is used to independently acquire measurement data within the measurement case. The data values receive a unique time and date stamp. To satisfy requirements from the authorities to provide tamper protection, the measurement case can be locked to the systems being measured. Furthermore, the Expert Logger data logger can be password protected against unauthorised access. The recorded measurement data – both during live measurement as well as part of the final analysis procedures – can be automatically or manually exported into MS-Office applications to reduce the effort required for documenting measurement results.

Kind regards

Delphin Technology AG