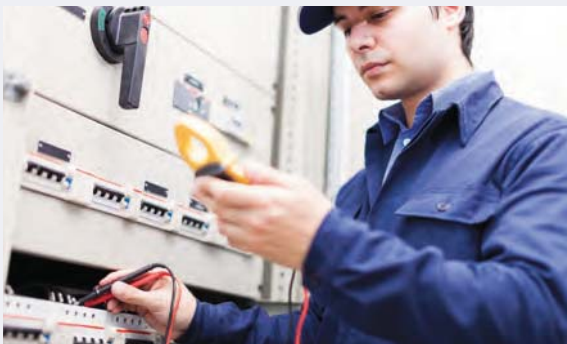


Expert Transient – Data recorder, fault

Synchronous and fast

Expert Transient is an independently operating data recorder for the synchronous acquisition of transient processes. Measurement data recording can take place continuously over long periods or via triggering. With the optional ProfiSignal Go software enables recorded signals to be portrayed live in $y(t)$ diagrams. Even high volumes of historical data are easy to analyse using ProfiSignal. The Expert Transient uses the powerful FPGA technology and features the following:

- Data acquisition from transient and periodic signals
- Triggered and continuous acquisition modes
- Diverse range of analysis functions
- Optional with the ProfiSignal Go analysis software
- Synchronously extendible with analog and digital inputs
- Independent, stand alone operation with long-term data storage capability
- Connectivity via WLAN or UMTS / LTE networks
- Highly compact design at a competitive price



Applications

- High-speed acquisition of analog or digital signals
- Fault diagnostics on machines, systems and test stand
- Evaluation of pressure pulses / surges
- High-speed process monitoring and controller optimisation
- Crash, detonation and explosion experiments
- Shock and vibration measurement
- Material research and environmental simulation
- Test stands and lab experiments

Expert Transient

Inputs / outputs	Type 8	Type 16
Analog inputs (mV, mA)	8	16
Analog outputs (mV, mA)	4	4
Digital / frequency inputs	4	4
Digital outputs	8	8

Expert Transient inputs / outputs

Input signal

- Acquisition and analysis of high-speed, transient signals
- Triggered or continuous recording modes
- Synchronous acquisition of 8 or 16 galvanically isolated analog signals
- Sampling rates of up to 50 kHz per channel
- High measurement precision (24-bit ADC)
- Four synchronous digital inputs

Trigger and monitoring functions

- Multiple, flexible and user-defined trigger events
- Partitionable, triggered data storage
- High-speed digital outputs for limit value violations
- Alarms via email or text messaging
- Suitable for the acquisition of periodic signals (option to calculate FFT and characteristic values)

Signal conditioning

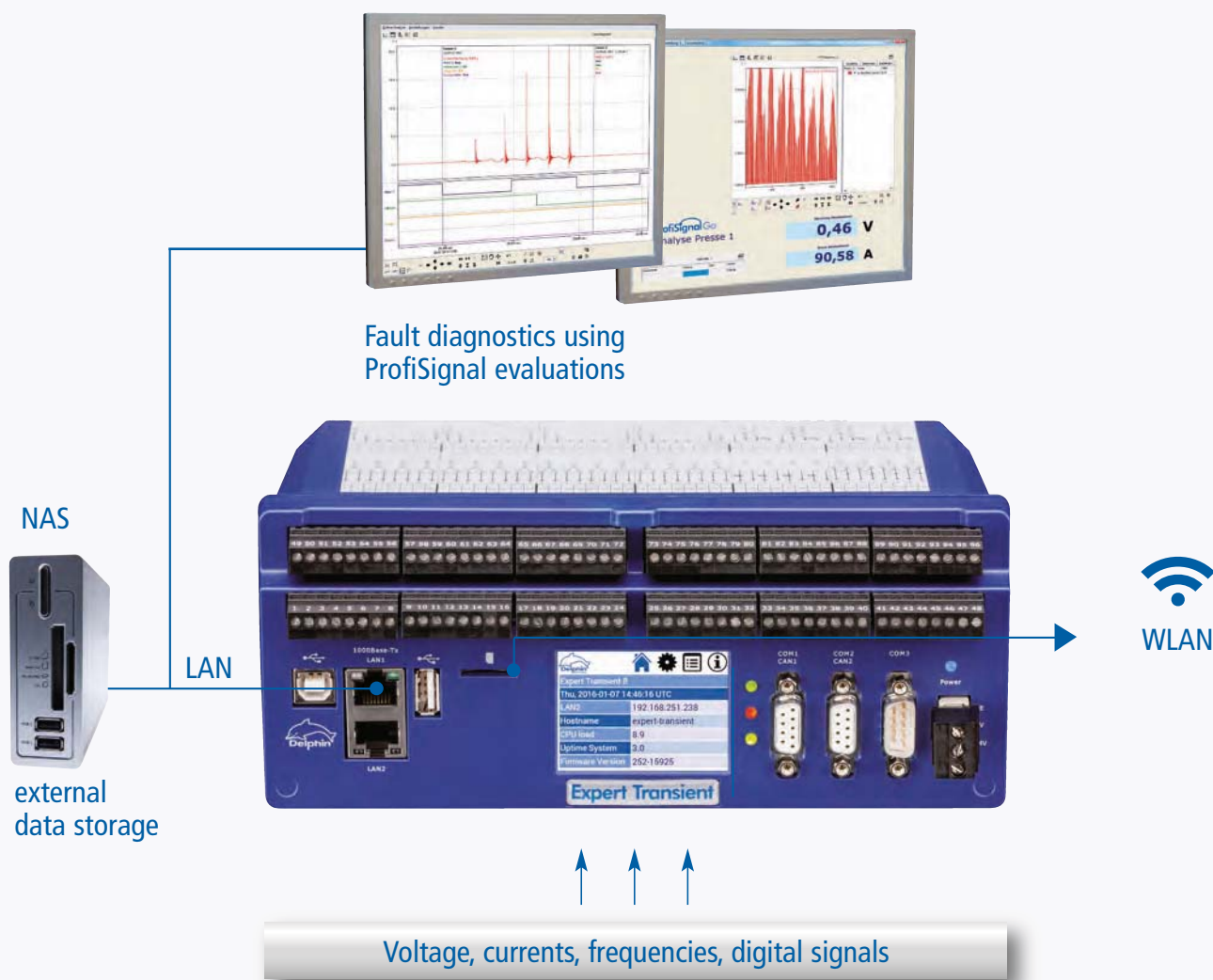
- Online computation of effective and peak values

Accessories

- NAS storage device with connectivity via LAN
- Mobile measurement case with BNC connectors
- WLAN, UMTS or LTE interfacing

diagnostics, transient data acquisition

Evaluation using ProfiSignalGo



Interfaces and design

- Measurement and device configuration via LAN / WLAN
- Remote connectivity via WLAN, UMTS or LTE
- Highly compact design

Extendible

- Over 100 synchronous analog channels
- Parallel acquisition of up to 100 digital channels
- Slow process measurement data

Data recording

- Independent, internal 2 GB data storage capability (up to 16 GB extendable)
- Long-term data recording to NAS
- Absolute time synchronisation via GPS or NTP
- Automated FTP upload into the cloud
- Internal time synchronisation via PTP



Technical specifications are available on page 51.