

Expert Logger – Stand alone **data logger** with int

Do you need a highly flexible, compact and universal data logger for different types of measurement tasks? The Expert Logger is the optimal solution.

Expert Logger is available in four variants differing in their number of analog and digital channels. With just one device, you can independently process up to 46 analog input channels, at both low and high sampling rates. All channels are galvanically isolated from each other. Measured data undergoes precision recording, monitoring and preprocessing and can be stored internally within the device. LAN, USB, WLAN or UMTS / LTE are available to transfer measurement data to a PC or server. Integrated interfaces such as PROFIBUS, Modbus and OPC UA enable optimal connectivity to existing infrastructure.

The Expert Logger is highly flexible to meet your specific measurement requirements. Simple and quick channel configuration enables the Logger to be efficiently adapted to your requirements and can be up and running in the shortest possible time.

USB
LAN
WLAN / LTE



Expert Logger

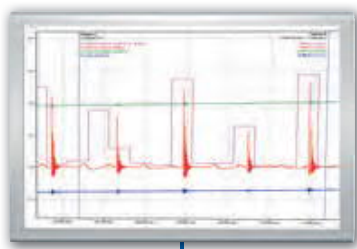
Type	100	200	300	400
Analog inputs for mV, mA, thermocouples	16	32	46	16
Appropriate for RTD	8	16	23	8
Total sampling rates (measurements / sec.)	1000	2000	3000	1000
Analog outputs	0	0	0	6
Digital / frequency inputs	4	4	0	1
SDI-12 sensor bus	1	1	0	0
Digital / PWM outputs	4	4	0	0
Digital inputs / outputs	4	4	1	24

uitive operation

Applications

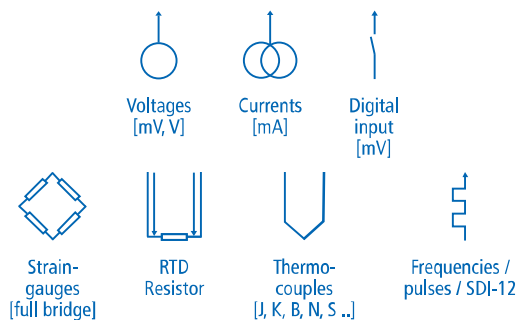
- Measurement data acquisition
- Environmental measurement technology
- Product testing
- Laboratory data acquisition
- Fault data acquisition
- Trials and testing
- Energy data acquisition and optimisation
- Remote data transmission
- Control

ProfiSignal

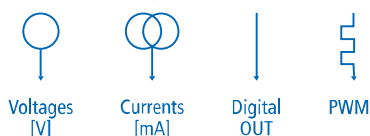


Data acquisition
and analysis

Input signals



Output signals



Interfaces

- Modbus TCP/RTU
- PROFIBUS DP, CAN RAW
- RS232, RS485

- SDI-12
- OPC UA*



Product features

- Up to 46 universal analog inputs
- Up to 24 digital inputs and switching outputs
- Remote monitoring via a UMTS / LTE interface (optional)
- WLAN interface for wireless data transmission (optional)
- Automated email and textmessage alerts

Sensor connection

- Universal analog inputs (mV, mA, thermocouples, RTD)
- Switch signals, frequency and pulse counters
- Pluggable screw terminals

Interfaces / Protocols

- LAN, USB
- SDI12 interface for environmental sensors
- Serial interfaces RS232, RS485
- OPC UA*, Modbus TCP/RTU
- PROFIBUS DP, CAN RAW
- Configuration of individual ASCII protocols
- NMEA for GPS sensors (optional)

Internal / external data storage

- 2 GB or 14 GB internal storage
- External storage media (USB, NAS)
- Event-triggered recording with pre and post histories
- Push function

Product highlights

- Universally usable inputs
- Software channels for analysis, monitoring, control and regulating
- Versatile interfaces
- High galvanic isolation voltage
- UMTS / LTE, WLAN, USB
- PROFIBUS Sniffer
- Many channels in a minimum of space
- 24-bit resolution and high-precision measurement
- External data storage

* HA optional