

Expert Key – PC-based measurement technology

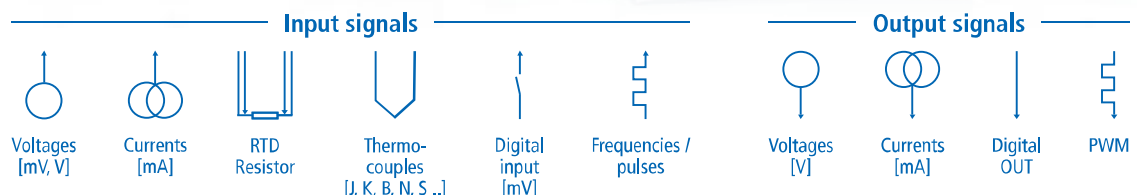
Correct measurement and acquisition of different measurement units is now possible. Easy operation and reliable performance are vital to make measurement a routine task, whether in laboratories, for servicing or at test stands.

With the Expert Key, we offer you a measuring system that, combined with a PC, provides the optimal basis for your measurement data requirements. A compact design gives it the flexibility to connect different sensor types. An ideal combination of analog and digital inputs makes the Expert Key ideal for test engineering. Whether you need to acquire slow or fast processes, Expert Key's sampling rate is adjustable channel by channel. This means you are not bound to one rate from the outset and can use the device for changing measuring requirements.

Setting sensor types, scaling and unique designations are performed via dialogs. You can then easily navigate the system while quickly setting channels and instantly commencing with your measurement tasks.



Expert Key



| Type | 100 | 200 |
|---|-----|-----|
| Analog inputs (mV, mA, thermocouples, RTD) | 14 | 28 |
| Analog outputs (mV, mA) | 2 | 2 |
| Digital inputs (frequency, counter)* ¹ | 12 | 1 |
| Digital outputs* ² | 8 | 1 |

*¹ 4 switchable as digital outputs

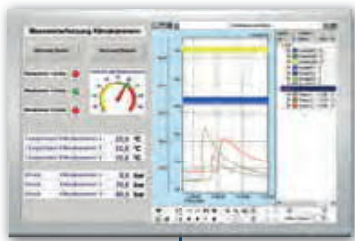
*² 4 with PWM function

from laboratory to test stand

Applications

- Automated trials, testing and inspection
- Laboratory data acquisition
- Fast signal acquisition
- Temperature acquisition
- Servicing and installation
- PC-supported data acquisition
- Monitoring and alerting

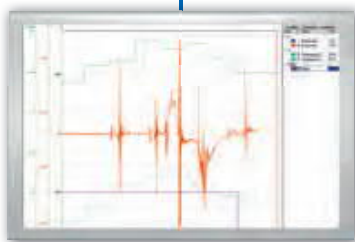
ProfiSignal



Data acquisition
and analysis

LAN

USB



Product features

- Optional 14 or 28 analog inputs
- Total sampling rate 100 kHz
- Universally usable inputs and outputs
- Simple scaling
- Configuration software included
- Different versions to match requirements
- Compact design, highly flexible

Sensor connection

- Universal analog inputs (mV, mA, thermocouples, RTD)
- Digital inputs can also be used as frequency and pulse counters
- Pluggable screw terminals
- Clear connection diagram for simple wiring

Interfaces

- LAN interface
- USB interface

Data storage

- Data storage in PCs or on servers
- Intelligent database system included

Versions

- Expert Key L – for laboratories and servicing
- Expert Key P – for trials and testing
- Expert Key C – for control cabinet construction
- Expert Key T – for multi-channel temperature measurements

Product highlights

- Universal connection options
- Total sampling rate 100 kHz
- High precision due to differential sensor connection
- Simple configuration
- Fast connectivity via LAN or USB
- Detachable screw terminals or plug connectors for easy connection
- Reliable monitoring and alerting