

Data Logger

(Standard equipment)



Measured value display, measuring devices (DMM, P-meter) and power supplies (AC, DC):
Via the data logger, 5 different measured variables can be selected and the measuring rate and storage depth (up to 500,000 measuring points) can also be defined.



Measured value display: The data logger allows the simultaneous and synchronised graphic display of 5 different measured variables or devices, including X-Y zoom and scroll functions. Individual curves can also be hidden.



Table function: The integrated measured value table allows simultaneous display of up to 5 measured variables per measuring point incl. data storage (up to 5 synchronised measured value series of 100,000 measured values, file storage and display keyboard).

Graphic and tabular recording function

The data logger is already part of the standard equipment of every control power supply unit, power arbitrary generator, digital multimeter, power meter and all AC sources. The data logger has a memory volume for measurement data of up to 500,000 measurement points, i.e. 5 measurement curves of 100,000 measurement points each can be stored. It offers a high-speed mode with a resolution of up to 1/100 sec. resolution. Complex correlations that are difficult to explain can be visualised by synchronised measurement value recording. The data can be stored in the device or, for example, on a USB stick (using file export).

An alphanumeric display keyboard enables meaningful naming. The stored files can be loaded, exported or deleted at any time. Alternatively, the internal memory can be read out via LAN, USB, WLAN and BT and the measurement data is immediately transferred to all end devices.

Zoom and pan function

The graphs can be moved and zoomed using the 2-finger gesture and they can be spread in the X and Y direction as well as diagonally. At the same time, the airwheel can be used to zoom and slide without touching (rotating finger and wiping gestures). The table can also be scrolled using the airwheel.

Due to the high sampling rate of the data logger (0.01 sec.) and the high display resolution of the new 8-inch multi-touch display of 800 x 1200 pixels, the measurement data can be displayed in very good quality. In the screen display "2/3 screen" and "Fullscreen", a permanent graph is shown parallel to the respective adjustable device parameters (independent of the data logger). Even in the small "Quattro screen", the graphic and tabular value display can be selected, zoomed and scrolled.

Technical data and features

Graphical and tabular display of measured values

The stored measured values as well as all current measured values can be quickly visualised in X- and Y-graphs on the large 8-inch multi-touch display. Using the 1- and 2-finger gestures (touch gestures) as well as the Airwheel (non-contact gestures by rotating the finger in the air or wiping in front of the wheel), graphs and tables can be spread or scrolled.

Up to 5 synchronised measured value series from different devices can be displayed simultaneously graphically and optionally in tabular form. (see picture 2 and picture 3)

- Curve 1: Power supply unit 1 – voltage
- Curve 2: Power supply unit 1 – current
- Curve 3: Power supply unit 2 – voltage
- Curve 4: Power supply unit 2 – current
- Curve 5: Digital multimeter – DC voltage measurement

Time display

- the available recording time
- the recording time used
- the recording time still available

Synchronous real-time measurement

Max. number of synchronised measuring signals: 5

Measured values of following devices free selectable:

- all DC and AC sources (all measurands)
- digital multimeter (all measurands)
- 1- and 3-phase power meters (all measurands)

Memory depth: max. 500,000 measured values in total, max. 100,000 measured values per measurand

Log rate: 0,01 (high-speed mode with 1 measurand)

Repetitions: 1 to ∞ (infinite)

Trigger: manually or by external trigger signal at any selectable digital input.

Flexible file storage system

- int. memory (4 GB) erasable via key function
- export function to USB (USB stick) and all other interfaces
- alphanumeric file name assignment through full display keyboard
- measured values retrievable by remote control command (SCPI command on LAN, USB, BT, WLAN)