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Sensor-CASSY en rack 3 HU

Interface device for recording measurement data

For connection to the USB-port of a computer

3-fold electrical isolation (4-mm-inputs A and B, relay R)

Measurement possible parallel at 4-mm-inputs and sensor box connector sites (4 channels)

Up to 8 analog inputs per Sensor-CASSY retrofittable using sensor boxes

Automatic sensor box detection (plug and play) by CASSY Lab 2 (524 220)

Microprocessor-controlled with CASSY operating system (easily updatable via software for function enhancements)

Developer Information and LabVIEW™ driver available through our internet homepage

Assembled in a 3 HU module to be integrated into a power supply channel. The USB socket is located at the front side.

Technical data

5 Analog inputs
2 Analog voltage inputs A and B on 4-mm safety sockets (electrically isolated)
Resolution: 12 bits
Measuring ranges: $\pm 0.1/0.3/1/3/10/30/100/250$ V
Measurement error: $\pm 1\%$ plus 0.5 % of range end value
Input resistance: 1 M
Scanning rate: up to 1 MHz per input
Amount of measured values: nearly unlimited (dependent on PC) up to 10,000 values/s, at higher measuring rate max. 200,000 values
Pre trigger: up to 50,000 values per input
1 Analog current input A on 4-mm safety sockets (alternatively to voltage input A)
Measuring ranges: $\pm 0.03/0.1/0.3/1/3$ A
Measurement error: voltage error plus 1 %
Input resistance: 0.5
Scanning rate: up to 1 MHz per input
See voltage inputs for further data
2 Analog inputs at sensor box connector sites A and B (All CASSY sensor boxes and sensors can be connected)
Measuring ranges: $\pm 0.003/0.01/0.03/0.1/0.3/1$ V
Input resistance: 10 k
Scanning rate: up to 500 kHz per input
See voltage inputs for further data
The technical data will change depending on a connected sensor box. In this case CASSY Lab 2 automatically detects the possible measurement quantities and ranges when a sensor box is attached.

4 Timer inputs with 32-bit counters at sensor box sites A and B (e.g. for BMW box, GM box or timer box)
Counting frequency: max. 1 MHz
Time resolution: 20 ns

1 Changeover relay (switching indication via LED)
Range: max. 250 V / 2 A

1 Analog output (LED switching state indicator, e.g. for holding magnet or supplying experiment)
Variable voltage range: max. 16 V / 200 mA (load 80)

12 Digital inputs (TTL) on sensor box sites A and B (at present only used for automatic sensor box detection)

6 Digital outputs (TTL) on sensor box sites A and B (at present only used for automatic switching of a sensor box measuring range)

1 USB-port for connection to a computer

Scope of supply: 1 Sensor-CASSY 21 CASSY Lab 2 software, without activation code, with comprehensive help function (20 full-functionality sessions free, then usable as demo version) 1 USB cable
Width: 63 PU

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