Systèmes Didactiques s.a.r.l.
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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)
Developper Information and LabVIEWTM 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 inputs2 Analog voltage inputs A and B on 4-mm safety sockets (electrically isolated)Resolution: 12 bitsMeasuring ranges: ± 0.1/0.3/1/3/10/30/100/250 VMeasurement error: ± 1 % plus 0.5 % of range end valueInput resistance: 1 M Scanning rate: up to 1 MHz per inputAmount of measured values: nearly unlimited (dependent on PC) up to 10,000 values/s, at higher measuring rate max. 200,000 valuesPre trigger: up to 50,000 values per input1 Analog current input A on 4-mm safety sockets (alternatively to voltage input A)Measuring ranges: ± 0.03/0.1/0.3/1/3 AMeasurement error: voltage error plus 1 %Input resistance: 0.5 Scanning rate: up to 1 MHz per inputSee voltage inputs for further data2 Analog inputs at sensor box connector sites A and B(All CASSY sensor boxes and sensors can be connected)Measuring ranges: ± 0.003/0.01/0.03/0.1/0.3/1 VInput resistance: 10 k Scanning rate: up to 500 kHz per inputSee voltage inputs for further dataThe 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 MHzTime 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 cableWidth: 63 PU

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