More Precision

**IF2008E Expansion Board**

The IF2008E expansion board is designed for installation in PCs and enables the synchronous capture of two digital sensor signals, two analog sensor signals and eight I/O-Signals. The card is used as expansion board for the IF2008PCIe. The absolutely synchronous data acquisition is a special feature which plays an important role when evaluating several sensors.

**Special advantages**
- 4x digital signals and 2x encoders with basic printed circuit board
- 6x digital signals, 2x encoders, 2x analog signals and 8x I/O signals together with IF2008E
- FIFO data memory
- Synchronous data acquisition

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**IO interface (X2)**
- 4x optocoupler inputs, input current max. 5 mA, input frequency max. 1 MHz
- 4x optocoupler outputs, output current max. 20 mA, output frequency max. 1 MHz

**Analog interface (X3)**
- 2x ADC channels
- Input voltage range 0 - 5 V, 0 - 10 V, ± 5 V, ± 10 V, separately adjustable for each channel via DIP switch
- Resolution 16 bits
- Offset error max. ± 3 mV
- Gain error max. ± 5 mV
- Conversion rate max. 150 kHz per channel

**Mechanics and environment**
- Dimensions (PCB) approx. 71 x 102 mm, width: 1 slot
- Max. permitted ambient temperature +40 °C
- 1x D-SUB female connector HD 15-pin for sensor connections
- 1x D-SUB female connector 9-pin for IO interface
- 1x D-SUB male connector 9-pin for analog inputs
- 3x MicroMatch female connectors for connection to basic printed circuit board

**IF2008E supports the following sensors and measuring systems**
- optoNCDT 1420
- optoNCDT 1750
- optoNCDT 2300
- optoNCDT 2310
- optoNCDT 118x/ILR 1191
- optoNCDT ILR 118x/ILR 1191
- optoCONTROL 2500
- optoCONTROL 2520
- optoCONTROL 2600