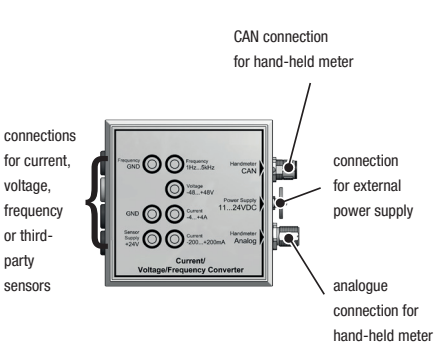
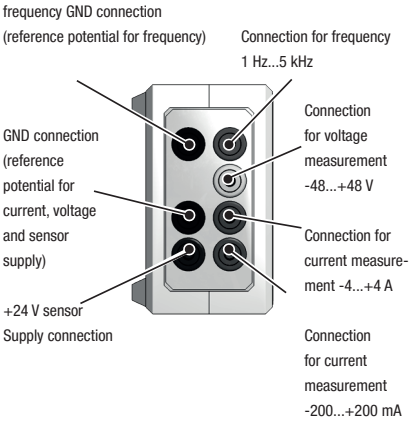
Current/Voltage/Frequency Converter ▪ Type Sensorconverter-PPC





Order Codes

Sensorconverter-PPC

①

① Series and Type

Current/Voltage/Frequency Converter	**Sensorconverter-PPC**

Product Description

The PPC Sensor Converter offers users the option of connecting third party sensors to the PPC Hydraulic Tester which are not equipped with a STAUFF sensor detection. These can have different output levels and can therefore also be easily measured with the Hydraulic Tester.

Specifications

▪ Dimensions:	100x100x61 mm
▪ Material:	ABS
▪ Weight:	240 g
▪ Operating temperature	0...+60 °C
▪ Storage temperature	-20...+85 °C
▪ Rel. humidity	< 80 %
▪ Protection rating	IP40 (EN 60529)

External power supply

▪ Power supply	11...30 V DC

Power supply for third-party sensor (galvanically isolated)

▪ Voltage	24 V DC ±2 V
▪ Current without PSU	max. 50 mA
▪ Current with PSU	max. 100 mA

Analogue Signal Measurement

Measuring of electric signals from a third-party sensor (e.g. 4 – 20 mA, 0 – 10 V) with the Sensorconverter-PPC.

The Sensorconverter-PPC is used, for example, for to measurue the current consumption on proportional valves or for determining the switching statuses of motors or pumps. This allows the PPC testers to read these third-party sensors. Typical applications for generating and measuring a force/displacement diagram or torque/volumetric flow characteristic curves.

The following input signals can be processed:

▪ Voltage (DC)	-48 V...+48 V CAN: ±0.5% FS; Analogue: ±1% FS
▪ Current (DC)	-200 mA...+200 mA CAN: ±0.5% FS; Analogue: ±1% FS
▪ Current (DC)	-4...+4 A ±1.5% FS
▪ Long term stability	0.1% span/a

Frequency Signal Measurement

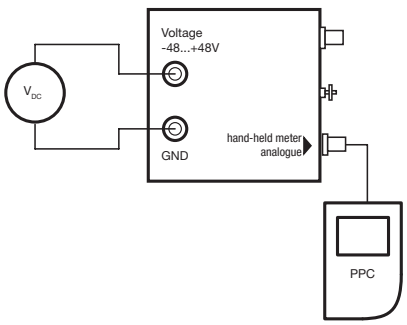
Measuring of electric frequencies from a third-party sensor

The Sensorconverter-PPC is used to make frequency signals (e.g. from turbine flow meters, volumetric flow meters and speedometers) measurable for PPC Hydraulic Testers. The adaptor can process sinusoidal and square signals from 1 Hz to 5 kHz with amplitudes from 100 mV to 24 V.

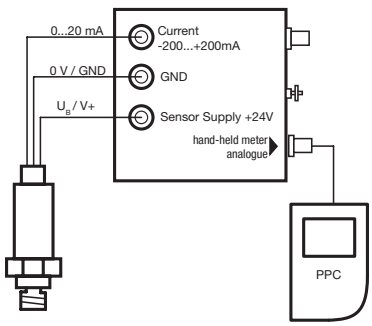
The following input signals can be processed:

▪ Frequency	1...5000 Hz; 100 mV...24 V CAN: ±0.1% FS @ < 100 Hz CAN: ±0.5% FS @ > 100 Hz Analogue: ±1%
▪ Long term stability	0.1% span/a

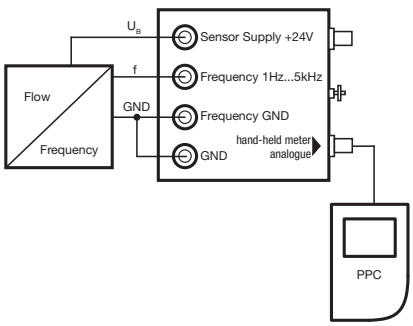
Connection example for voltage measurement



Connection example for pressure sensor 600 bar, 0...20 mA



Connection example for flow meter 160 l/min, 1 kHz



The measured data are transferred to the Hydraulic Testers directly with the normal CAN or analogue Connection Cables.