

Hydraulic Testers ▪ Type PPC-04-plus / PPC-04-plus-CAN



PPC-04-plus with 2 sensor inputs
for max. 2 analogue STAUFF Sensors



PPC-04-plus-CAN with CAN interface
for up to 3 STAUFF CAN Sensors
(max. 50 m / 164 ft cable length)

Product Description

The PPC-04-plus and PPC-04-plus-CAN Hydraulic Testers have been developed for the growing demands in mobile and industrial hydraulic systems. They are perfectly suited for the precise determination of pressure, temperature, volume flow and rotational speed.

- Multi-line, backlit LCD display
- Max. 2 analogue STAUFF Sensors can be connected at the same time
- With CAN interface, max. 3 CAN STAUFF Sensors can be connected at the same time
- Integrated data memory for 15000 data records (max. 24 hours)
- External storage by using a USB memory stick (1 GB included)
- Max. cable length: 50 m / 164 ft (CAN version)

The Hydraulic Testers are available in two versions. The PPC-04-plus, analogue version, comes with two inputs for connecting up to 2 analogue STAUFF Sensors at the same time. The PPC-04-plus-CAN comes with a CAN interface for connecting up to 3 CAN STAUFF Sensors at the same time. Both versions provide automatic sensor recognition, thus making the tedious and often time-consuming parameterization of sensors redundant. The units can be easily operated via the keyboard and the individual device configurations can be viewed and managed.

Due to its extremely robust construction and oil-resistant rubber coating, the Hydraulic Testers can withstand impacts, vibrations, dust and moisture (protection class up to IP 67) and is designed for use in particularly harsh conditions.

The internal battery (Lithium Ion pack) can be charged via an micro USB connection, this connection can be also used to transfer the internally stored data to a PC or notebook. Furthermore, this connection is also provided for real-time presentation of the measured values on the PC.

The PPC-04-plus devices can store up to 15000 data records and 270000 measured values. The included PPC software is compatible with popular Windows® PC operating systems and permits various evaluation methods.

It is also possible to connect the Pressure Sensors under load, with the equipment switched on. The temperature and volume flow sensors are to be installed in the pipelines. The Rotational Speed Sensor is a non-contacting sensor and uses an optical mark on the rotating parts.

Measuring the differential pressure requires two Pressure Sensors with identical measuring ranges.

The units are also available as a complete set.
See pages 48 / 49 for further information.

Order Codes

| PPC-04-plus | | - | CAN | - | CAL |
|-------------------|---|---------------|-----|---------------|--|
| 1 | | 2 | | 3 | |
| ① Series and Type | Hydraulic Tester | PPC-04-plus | | ③ Calibration | Without calibration certificate (none) With calibration certificate (factory calibration) CAL |
| ② Version | Analogue STAUFF Sensors STAUFF CAN Sensors | (none) CAN | | Note: | Calibration certificate is only available for the analogue Hydraulic Tester PPC-04-plus. |

Technical Data

Materials

- Housing made of ABS in a rubber protective

Dimensions and Weight

- W x H x D: 96 x 172 x 54 mm / 3.78 x 6.77 x 2.13 in
- Weight: ca. 540 g / 1.19 lbs

Measurements / Display

- Pressure: in bar, PSI, mbar, kPa, MPa
- Temperature: in °C and °F
- Volume flow: in l/min and US GPM
- Rotational speed: in 1/min and RPM
- Display: FSTN-LCD, graphic, LED backlit
- Visible area: 62 x 62 mm / 2.44 x 2.44 in
- Resolution: 130 x 130 Pixel
- Internal measured value memory: 1 measurement, approx. 15000 data sets (270000 measured values ACT/MIN/MAX), max. 24 h per measurement

Power Supply

- External: Micro USB socket, type B +5V DC, max. 1000 mA
- Battery: Lithium Ion pack 3.7 V DC / 2250 mAh or 3.7 V DC / 4500 mAh CAN version
- Operating time with the rechargeable battery: approx. 8 hours

Sensor Inputs

- Push-in connection: 5-pol., push-pull or 5-pol., M12x1, connector (CAN version)
- Automatic sensor recognition
- Sampling rate: 1 ms
- Accuracy: < ±0.2% FS* ± 1 Digit

Permissible Temperatures

- Ambient: 0 °C ... +50 °C / +32 °F ... +122 °F
- Storage: -25 °C ... +60 °C / -13 °F ... +140 °F
- Relative humidity: < 80 %
- CE certified

Interfaces

- USB device: Online transmission between unit and PC via PPC-Soft-plus (software)
Measured value transmission: ACT/MIN/MAX, min. 5 ms
USB standard: 2.0, fullspeed
Push-in connection:
Micro USB socket, shielded, type B
Connection for USB stick, max. 4 GB
USB standard: 2.0, fullspeed,
max. 100 mA
Push-on connection:
USB socket, shielded, type A
- USB host:

Protection Rating

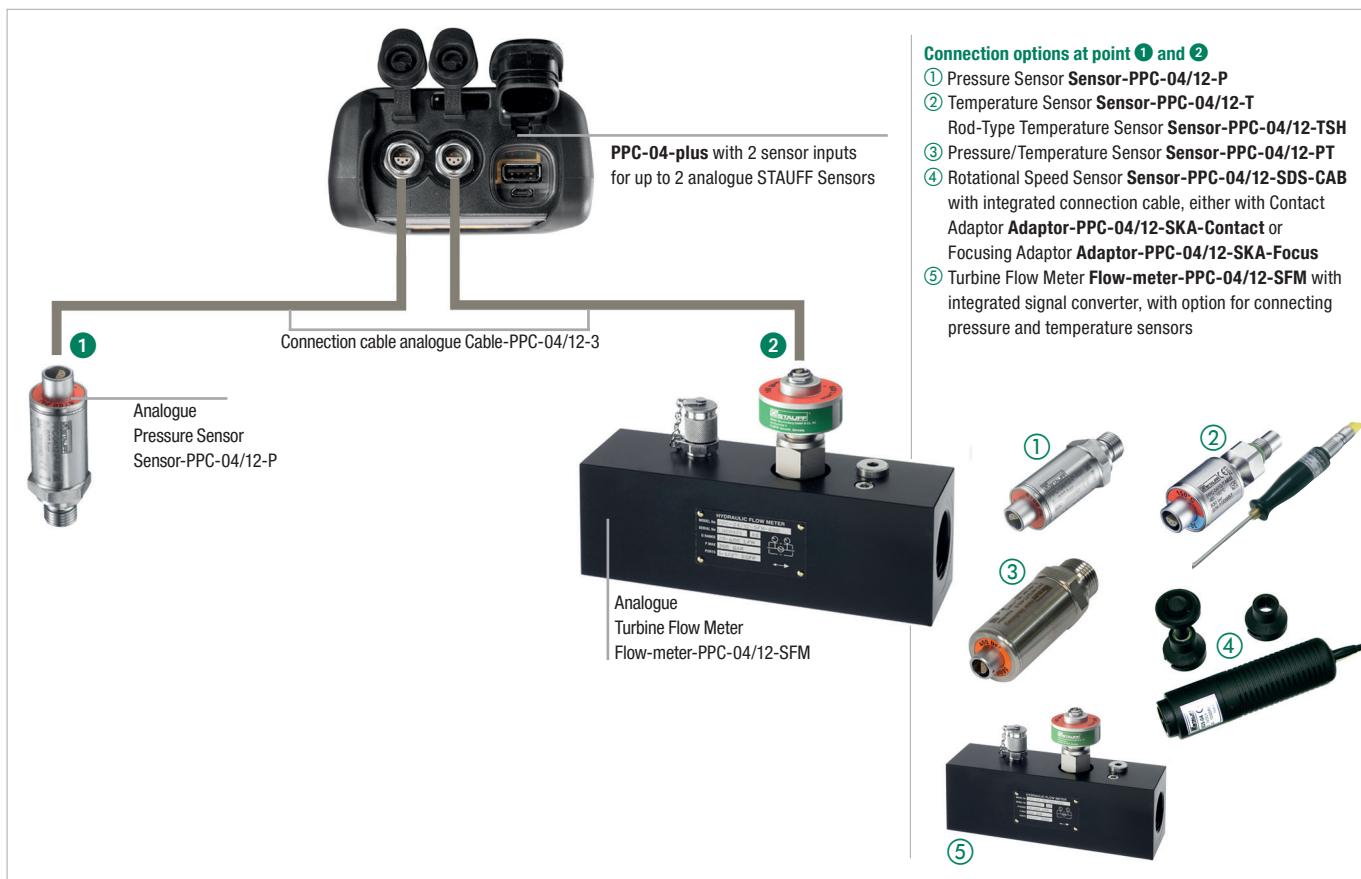
- IP 54 protection rating: Dust protected and protected against splashing water
- (CAN version)
IP 67 protection rating: Dust tight and protected against splashing water

Software

A PC set, consisting of a USB connection lead, length 1 m / 3.28 ft and the corresponding PC software, is included in the scope of delivery. The measured data and curves can be easily transferred and processed by using PPC-Soft-plus software as well as exported to Microsoft Excel®.

Dimensional drawings: All dimensions in mm (in).

Connection example for analogue STAUFF Sensors ▪ Type PPC-04-plus



B

Connection example STAUFF CAN Sensors ▪ Type PPC-04-plus-CAN

