PPS1210 / PPS1210L
Heatable Pressure Calibrator

- **Pressure range: 0 to 700 bar**

- **Accuracy: ± 0,1 % FS**

- **Heatable pressure port**

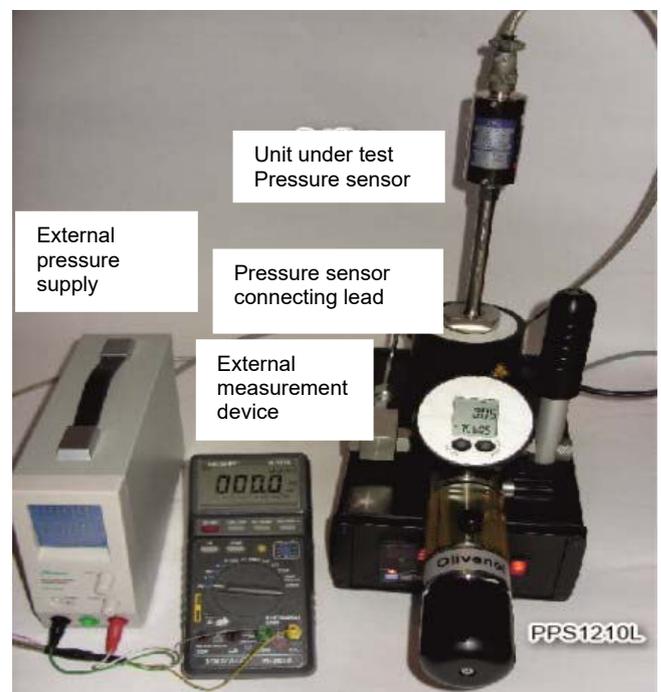- **Temperature up to +400°C**

- **Medium: Oil**

Application

The pressure calibrator PPS1210/PPS1210L with heatable pressure port allows fast and accurate on-site tests of the mass pressure sensors under operating conditions.

PPS1210L

In order to carry out a test, the sensor needs to be screwed into the pressure port. The booster pump is used to generate a pre-pressure. By turning the knob on the screw-type compressor you can easily create pressure up to 700 bar on the screwed-in unit under test. The integrated PID temperature controller allows setting the desired ambient temperature up to +400 °C on the pressure port.

This model requires an external pressure supply to the sensor under test. The output signal must be recorded by an external measurement device (refer to the example in image 3). The measured output signal (Volt, mV or mA) can be evaluated according to the pressure display of the calibrator against the set point corresponding to the pressure.

Unit under test Pressure sensor

External pressure supply

Pressure sensor connecting lead

External measurement device

PPS1210L

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PPS1210

In order to carry out a test, the sensor needs to be screwed into the pressure port. The booster pump is used to generate a pre-pressure. By turning the knob on the screw-type compressor you can easily create pressure up to 700 bar on the screwed in unit under test. The integrated PID temperature controller allows setting the desired ambient temperature up to +400 °C on the pressure port.

The data of the sensor under test can be compared to the data of the integrated reference sensor via the calibrator's internal electronics. The data can be transferred via the USB slot to a PC or notebook in order to be displayed, saved and altered as well as administrated. The data of the system under test can be documented and archived in an Excel Sheet (a template is included on the supplied software).

The pressure calibrator is delivered in a sturdy aluminum carrying case with foam padding.

Specification

Pressure range [1]:	0 - 700 bar (200 bar FS upon request)
Maximum allowable pressure:	FS + 10 %
Resolution:	100 mbar (10 mbar at a pressure of 200 bar)
Accuracy:	± 0,1 % of a unit (where t = 0 °C to +50 °C) +/- 1 Digit
Measurement rate:	500 ms (2 Hz)
Units:	Bar / PSI / kPA / mH$_2$O among other units (in total 13 different units, adjustable in the display)
Heatable pressure port [1]:	1/2" 20UNF or M18 x 1.5 (other ports available upon request)
Temperature at pressure port:	can be adjusted from ambient temperature up to +400°C via the built-in PID temperature controller
Oil volumes:	57 ml
Oil type:	EP-1201 or Olive oil
Voltage supply:	3 V battery, type CR 2430
Battery lifespan:	2000 hours of continuous operation
Interface:	USB (calibrator and PC/laptop) *(PPS1210 only)*
Voltage supply Heating and sensor power supply [1]:	115 V AC or 230 V AC
Sensor power supply (test piece):	Via plug or socket *(PPS1210 only)* or external

Protection rating:	IP 65
Storage temperature:	0 °C to +60 °C
Operating temperature:	0 °C to +50 °C
Compensated temperature range:	0 °C to +50 °C
Humidity:	5 to 95 % relative humidity, non-condensing
Dimensions (LxBxH):	Approx. 470 x 170 x 280 mm
Weight:	Approx. 7,2 kg (incl. battery)

[1] : Please specify when ordering

Delivery

- Heatable pressure calibrator
- Delivered in a sturdy aluminium transport case with fitted foam inlays
- Replacement battery for calibrator electronics
- 230V AC power cable
- Plug Volt *(PPS1210 only)*
- USB data cable *(PPS1210 only)*
- 5/11 point inspection protocol (factory certificate)
- Software CD *(PPS1210 only)*
- User manual in German (English and French available on request)