

Short description of PPS1210 heatable pressure calibrator

The PPS1210 pressure calibrator with heatable pressure port allows you to quickly and accurately check your melt pressure sensors on-site and under operating conditions.

To test a sensor, screw it into the pressure port. A pressure pump creates initial pressure. By simply turning the head of the screw compressor you can easily create a pressure of up to 700 bar on the test piece screwed into the device. The built-in PID temperature controller can generate the desired temperature at the pressure port within a range from room temperature up to +400°C.





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PPS1210 Pressure Calibrator

Aluminium transport case with pressure calibrator

Excel sheet for evaluating the measurement results

The data from the sensor being tested can be compared to the data from the integrated reference sensor via the electronics built into the calibrator, and for documentation purposes these can then be transferred to a PC or laptop via a USB interface. There, they can be displayed, saved and processed further as required.

The data from the test piece can be easily documented and archived in an Excel spreadsheet (a template can be found among the software included).

The pressure calibrator is delivered in a sturdy aluminium transport case with fitted foam inlays.

Special features - Operating data:

- Pressure range 0 700 bar
- Pressure port 1/2"20UNF or M18x1.5 (other sizes available on request)
- Accuracy <0.05% FS
- Pressure display in 13 different units
- Battery-powered pressure display (mains power supply required for heating and for transferring data to a PC)
- Battery: standard commercially available button cell; Lifespan: >2000h of continual operation
- Data transfer to PC/laptop via USB interface; transfer cable included in deliverv
- Oil volumes 57ml (HLP22BP/olive oil)
- Measurement interval 0.5 seconds
- Conforms with CE and RoHS
- DKD (Deutscher Kalibrierdienst / German Calibration Service) certification optional
- Environmental conditions: 0...50°C/5...95% relative humidity
- Dimensions (LxWxH): approx. 470 x 170 x 280 mm
- Weight: approx. 7.2 kg, with case approx. 13 kg

For further information please refer to our technical data or contact us.

We reserve the right to amend the technical specifications

Revision1307-05



Technical data for the PPS1210/PPS1210L heatable pressure calibrator

Pressure range ¹ : Maximum allowable pressure: Resolution: Accuracy: Measurement rate: Units:	0 - 700 bar FS + 10% 100 mbar (10 mbar at a pressure of 200 bar) ± 0,05 % of a unit (where t = 0 °C to +50 °C) +/- 1 Digit 500 ms (2 Hz) Bar / PSI / kPA / mH, among others ₂ 0 (in total 13 different units,
Heatable pressure port ¹ : Temperature at pressure port:	adjustable in the display) 1/2" 20UNF or M18 x 1.5 (other ports available on request) can be adjusted from room temperature up to +400°C via the built-in PID temperature controller
Oil volumes:	57 ml olive oil / HLP 22 BP
Oil type: 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 : Sensor power supply (test piece):	115 V AC or 230 V AC 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: Dimensions (LxWxH):	5 to 95% relative humidity, non-condensing approx. 470 x 170 x 280 mm
Weight:	approx. 7.2 kg (including battery)

¹: Please specify when ordering

Box contents PPS1210/PPS1210L pressure calibrator

- 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 (work certificate)
- Software CD (PPS1210 only)
- User manual in German (English and French available on request)

Optional accessories:

- DKD (Deutscher Kalibrierdienst / German Calibration Service) certificate for display and internal reference sensor
- Mounting bush 45°, M18x1.5 on ½"-20UNF
- Plug 0/4....20mA (PPS1210 only)
- Plugs: 2mV/V, 2.5mV/V, 3.3mV/V (PPS1210 only)

Accessory prices available on request