

## Short description of DANPPS1210 heatable pressure calibrator

The DANPPS1210L 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.



Fig. 1: DANPPS1210L pressure calibrator



Fig. 2: Aluminium transport case with pressure



Fig 3: Illustration of the measuring system

The pressure sensor being tested in this configuration must have an external power supply, and the output signal must be recorded with an external measuring device. (Cf. example measurement configuration in fig. 3).

The measured output signal (Volt, mV or mA) can then be evaluated against the control value for this pressure by means of the pressure value displayed on the calibrator.

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

### Special features - Operating data:

Pressure range 0 - 700 bar (other pressure ranges can be supplied on request)

- 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 to heat the pressure port)
- Battery: standard commercially available button cell; Lifespan: >2000h of continual operation
- Optional data transfer of generated pressure to PC or laptop via an external converter possible
- 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.

## **Technical data for the DANPPS1210 / DANPPS1210L heatable pressure calibrator**

Pressure range <sup>1</sup> :	0 - 700 bar (200 bar FS on request)
Maximum allowable pressure:	FS + 10%
Resolution:	100 mbar (10 mbar at a pressure of 200 bar)
Accuracy:	± 0,05 % of a unit (where t = 0 °C to +50 °C) +/- 1 Digit
Measurement rate:	500 ms (2 Hz)
Units:	Bar / PSI / kPA / mH, among others <sup>2</sup> 0 (in total 13 different units, adjustable in the display)
Heatable pressure port <sup>1</sup> :	1/2" 20UNF or M18 x 1.5 (other ports available on request)
Temperature at pressure port:	can be adjusted from room temperature up to +400°C via the built-in PID temperature controller (close system)
Oil volumes:	57 ml
Oil type:	olive oil / HLP 22 BP
Voltage supply:	3 V battery, type CR 2430
Battery lifespan:	2000 hours of continuous operation
Interface:	USB (calibrator and PC/laptop) ( <i>DANPPS1210 only</i> )
Voltage supply	
Heating and sensor power supply <sup>1</sup> :	115 V AC or 230 V AC
Sensor power supply (test piece):	via plug or socket ( <i>PPS1210 only</i> ) 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 (LxWxH):	approx. 470 x 170 x 280 mm
Weight:	approx. 7.2 kg (including battery)

<sup>1</sup>: Please specify when ordering

### **Box contents DANPPS1210/DANPPS1210L 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 (German Calibration Service) certificate for display and internal reference sensor
- Mounting bush 45°, M18x1.5 on 1/2"-20UNF
- Plug 0/4....20mA (*PPS1210 only*)
- Plugs: 2mV/V, 2.5mV/V, 3.3mV/V (*PPS1210 only*)

Accessory prices available on request