LR-Cal

Electronic Pressure Calibrator LPC 200
Accuracy up to ±0,025% f.s., max. 6000 bar

LPC 200

Electronic Pressure Calibrator LPC 200, changeable pressure sensors

- Very simple operation, easily-read display (backlighting selectable)
- Changeable reference sensors (plug & play)
  this means, up to 10 pressure ranges with one instrument
- Ranges from 0...5.8 psi (400 mbar) up to 0...87000 psi (6000 bar)
  (also vacuum-, compound- and absolute pressure ranges)
- Accuracy up to 1000 bar: ±0.025% f.s.; up to 6000 bar: ±0.1% f.s.
- Logging function, pressure rate, min-/max value, Bargraph, Tare
- Issue calibration certificates with optional
  PC-Windows®-software **LPC-Cal**
- Pressure calibration kit's, complete with calibration hand pumps
  as portable pressure source
- Chargeable Lithium-Ion battery, incl. Charger, USB-interface
- Switchable pressure unit PSI, bar, mbar, kPa, mmHg, inHg

Together with a suitable calibration pressure source like the calibration hand pumps LPP 30 (pneumatic) or LPP 700 / LPP 1000 (hydraulic), the **LPC 200** offers a pecision pressure calibration system, suitable also for use on site, portable. The **LPC 200** also opens up other helpful applications, e.g. recording of pressure curves (logging function), leak testing (pressure rate function). These useful functions can be easily activated or deactivated by pressing the respective keys.
A factory calibration certificate for each reference sensor certifies the total uncertainty of the measuring chain. Alternatively, on request, a DKD calibration certificate can be supplied.

Using the optional **LPC-Cal** software, the logged data, stored in the **LPC 200**, can be transferred to a PC via a USB connection, where it can be stored in an Excel® file for documentation and further evaluation. In addition, **LPC-Cal** offers the possibility of PC-supported calibration of pressure measuring instruments using the **LPC 200**.

Technical Data (Indicator LPC 200 together with reference sensor LPC-2):

Standard Pressure Ranges (PSI)	5.8	23.2	87	232	580	1450	3626	8700	14500
Standard Pressure Ranges (bar)	**0.4**	**1.6**	**6**	**16**	**40**	**100**	**250**	**600**	**1000**
Overpressure safety (bar)	2	10	35	80	80	200	500	1200	1500
Burst pressure (bar)	2.4	12	42	96	400	800	1200	2400	3000
Accuracy (Total uncertainty of measurement chain)	0.025% FS, calibrated at 23°C and in vertical mounting position with pressure conn. facing down.								
High Pressure Ranges (PSI)	**23200**	**36200**	**58000**	**72500**	**87000**				
High Pressure Ranges (bar)	**1600**	**2500**	**4000**	**5000**	**6000**				
Overpressure safety (bar)	2000	3000	4400	6000	7000				
Burst pressure (bar)	4000	5000	7000	10000	11000				
Accuracy (Total uncertainty of measurement chain)	0.1% FS (calibrated at 23°C and in vertical mounting position with pressure conn. facing down.)								
Type of pressure	see above (standard and high pressure ranges) but also vacuum-, compound- and absolute pressure ranges								
Units of pressure	bar, mbar, kPa, mmHg, inHg, PSI (depending on range, switchable)								
Active temperature compensation	+10...+40°C								
Permissible ambient temperature	0...+50°C								
Calibration	Traceable factory certificate of calibration (optional: DKD certificate of calibration)								

Technische Änderungen vorbehalten. Freibleibend • (Rel. 101122) • All technical modifications reserved. Without engagement

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Technical Data Indicator LPC 200:

Display	large graphic display, with backlighting on/off selectable
Display resolution	up to 6 digits, selectable
Measuring rate (pressure)	5 values per second
Functions	min-, max-memory, tare, pressure rate, filter, zeropoint-adjustment
Data logger	up to 1000 values, cycle time adjustable 1...3600 seconds
Interface	USB
Power supply	internal Lithium-Ion rechargeable battery (charging time <6 h) alternative: mains supply via charger
Battery operation	approx. 25 hours
Permissible air humidity	0...85% r.h. at 50°C, non-condensing
Permissible storage temperature	-20...+60°C
Housing material	Polyamide 12, membrane keyboard, transparent panels
Ingress protection	IP 65
Weight (without sensor)	approx. 480 g
Dimensions (without Sensor)	width x height x depth: 75/106 x 50/82 x 194 mm
CE-conformity	interference emission and immunity to EN 61326 declaration of conformity on request

Technical Data Reference Sensors LPC-2:

Pressure connection	up to 1000 bar:1/2" BSP male (other on request) >1000 bar: high pressure port M16 x 11,5 female, with sealing cone
Wetted parts (material)	stainless steel
Permissible medium temperature	-30...+105°C
Permissible storage temperature	-40...+85°C
Housing material	stainless steel
Electrical connection	round plug, 8-pole, suitable for **LPC 200**
Weight	approx. 220 g
Dimensions	diameter x height: 40 x 102,5 mm
CE-conformity	89/336/EWG interference emission and immunity to EN 61326 97/23/EG pressure equipment directive (module H)

Scope of Supply:
- Indicator **LPC 200**
- 1 reference sensor **LPC-2** (optional up to 9 more reference sensors = pressure ranges possible)
- Factory certificate of calibration 3.1 as per EN 10204
- Battery charger 115...230 VAC, incl. several adaptors
- Operating manual

Options / Accessories:
- DKD certificate of calibration
- Thread adaptors for pressure connection
- MINIMESS® quick-connectors and hoses
- **LPC200-MAH** magnetic hook
- **LPC200-SCH** supporting loop
- USB interface cable and PC-Windows-Software **LPC-Cal**
- Calibration handpump LPP 30, LPP 700, LPP 1000 and case (complete pressure calibration kit's LPP-KIT)

LPC200-MAH   LPC200-SCH