

Electronic Pressure Calibrator **LR-Cal** 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: $\pm 0.025\%$ f.s.; up to 6000 bar: $\pm 0.1\%$ 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 **LR-Cal** LPP 40 (pneumatic) or **LR-Cal** LPP 700 / LPP 1000 (hydraulic), the **LR-Cal** LPC 200 offers a precision pressure calibration system, suitable also for use on site, portable. The **LR-Cal** LPC 200 also opens up other helpfull 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 DAKKS calibration certificate can be supplied.



Using the optional **LPC-Cal** software, the logged data, stored in the **LR-Cal** 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 **LR-Cal** LPC 200.

Technical Data (Indicator **LR-Cal** 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: DAkkS certificate of calibration) | | | | | | | | |

Technical Data Indicator LR-Cal LPC 200:

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|---------------------------------|---|
| 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 LR-Cal LPC 200 |
| Weight | approx. 220 g |
| Dimensions | diameter x height: 40 x 102,5 mm |
| CE-conformity | 89/336/EEG interference emission and immunity to EN 61326 97/23/EG pressure equipment directive (module H) |

Scope of Supply:

- Indicator **LR-Cal** 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

The LPC-2 reference sensor(s) have to be ordered as separate item(s)

Options / Accessories:

- DAkkS 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 **LR-Cal** LPP 40, **LR-Cal** LPP 700, **LR-Cal** LPP 1000 and case (complete pressure calibration kit's **LR-Cal** LPP-KIT)



LPC200-MAH



LPC200-SCH

Authorized Distributor

PIC Engineering And Services (002110838-X)
No. 72, Jalan Keluli AN7/AN,
Pusat Perniagaan Bukit Raja, Seksyen 7
40000 Shah Alam, Selangor D.E., Malaysia
Tel: +6019 338 8819 Fax: +603 3343 8819
Email: sales@picengineering.com.my
Website: www.picengineering.com.my