Pressure & Temperature Calibrator ±0.025% FS / ±0.05°C

LPC 200-T

Rel. 20140312

Electronic Pressure & Temperature Calibrator LR-Cal LPC 200-T

 Pressure: interchangeable sensors LPC-2, up to 1000 bar ±0.025% FS, up to 6000 bar ±0.1% FS

Temperature: Pt 100, Accuracy ±0,05°C

For calibration service companies and service industry, measurement and control laboratories, quality assurance.

- Digital indicator with temperature sensor and internchangeable pressure sensors LPC-2 (plug & play).
- Pressure ranges from 0...400 mbar to 0...6,000 bar as well as absolute and compount pressure ranges.
- Simultaneously measurement of pressure & temperature
- Min- and Max values, pressure rate and data logging
- PC-Software LPC-Cal included in standard delivery (Read-out of logged data, creation of calibration certificates)

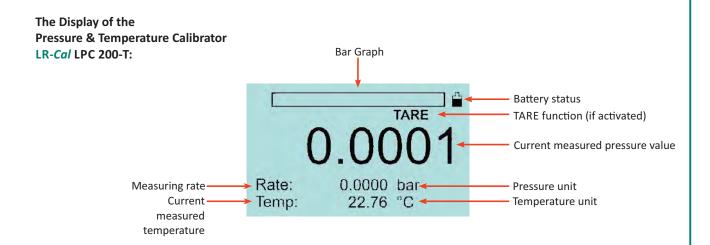


Together with a suitable calibration pressure source like the pressure test pumps LR-Cal LPP 40, LR-Cal LPP 60, LR-Cal LPP 700 orr LR-Cal LPP 1000, or pressure comparison pumps like LR-Cal LPP 60-T or LR-Cal LSP the pressure and temperature calibrator LR-Cal LPC 200-T offers a precision pressure calibration system with accurate temperature measurement. The LR-Cal LPC 200-T also opens up other helpfull applicactions, e.g. recording of pressure and temperature curves (logging function), leak testing (pressure rate function with recording of a influence of temperature) and Peak value measurement (MIN/MAX value function).

With the supplied PC-software **LPC-Cal**, the logged data can be transferred to a PC via USB connection. In addition, the software offers the possibility of PC-supported calibration of pressure measuring instruments using the **LR-Cal LPC 200-T**.

For mobile use, several Kits including portable pressure test pump(s), hose and threaded adapters, supplied in transit case with custom foams, are available.

For each reference sensor **LPC-2** and the temperature sensor a traceable certificate of calibration is supplied. Optional DKD-/DAkkS-certification is available.



LPC 200-T

Pressure & Temperature Calibrator ±0.025% FS / ±0.05°C



Technical Data			re and T lete mea			rator L	R- <i>Cal</i> LPC	200-T		
Pressure measurement		1 reference pressure sensor LPC-2 (changeable without tools)								
Measuring range	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 of the measuring chain		0.025 % FS ²⁾								
Measuring range	bar	1600	2500	4000	5000	6000				
Overpressure safety	bar	2300	3500	5000	6000	7000				
Burst pressure	bar	4000	6000	8000	10000	11000				
Accuracy of the measuring chain		0.1 % FS ²⁾								
Type of pressure		gauge pressure; *) = also as absolute ranges; compound pressure ranges also available: -10 bar, -1+0.6 bar, -1+3 bar, -1+5 bar, -1+24 bar								
Pressure units		bar, mbar, kPa, psi, mmHg, inHg and kg/cm² (depending on the measuring range, selectable)								
Active temperature compensation	°C	10 40								
Temperature measurement		Sensor 295 x 3 mm, with handle								
Sensor type		Pt100, 4-wire								
Measuring range	°C	-10 +50								
Resolution	°C	0.01								
Accuracy	°C	0.05								
Permissible ambient temperature	°C	050								
Calibration ²⁾		Factory calibration certiicate (optional: DKD/DAkkS calibration certiicate)								

Speciications		Digital handheld indicator LR-Cal LPC 200-T	
Display		Large graphic display, with backlighting (On/Of selectable)	
Display resolution		up to 6 digits; selectable	
Measuring rate (pressure)		5 values/sec	
Functions		Min, Max memory, pressure rate, tare, ofset-correction for gauge pressure ranges, data logger function	
Data logger		- Cyclic data logger: automatic recording of up to 1000 values (500 pressure values and 500 temperature values)	
		- Cycle time: adjustable from 1 3600 seconds	
Interface		USB	
Permissible			
Relative humidity	% r. H.	0 85 (non-condensing; at 50 °C)	
Storage temperature	°C	-20 +60	
Power supply			
Current supply		Internal Lithium-Ion rechargeable battery (charging time: < 6 h)	
Battery operation	h	approx. 25	
Case		Polyamide 12, membrane keyboard, transparent panels	
Ingress protection		IP 65	
Weight	g	approx. 480	
CE conformity			
■ EMC directive		2004/108/EC, EN 61326 Emission (Group 1, Class B) and Immunity (portable measurement equipment)	

Speciications		Reference pressure sensor LPC-2
Pressure connection		≤ 1000 bar: G ½ B; {various connection adapters on request} > 1000 bar: M16 x 1.5 female, with sealing cone
Material		Stainless steel for wetted parts (for measuring ranges > 25 bar ≤ 1000 bar additional Elgiloy®
Internal transmission fluid		Synthetic oil (only for measuring ranges up to 25 bar)
Permissible temperature ranges		
Medium	°C	-20 +80
Storage	°C	-40 +85
Case		Stainless steel
Electrical connection		Circular connector, 8-pin
Ingress protection		IP 65 (with cable connected)
Weight	g	approx. 220
CE conformity		
 Pressure equipment directive 		97/23/EC, PS > 200 bar; module A, pressure accessory
■ EMC directive		2004/108/EC, EN 61326 Emission (Group 1, Class B) and Immunity (industrial locations)

Up to 10 reference sensors LPC-2 (= pressure ranges) can be used with one instrument LR-Cal LPC 200-T.
 Calibrated at 23 °C and in vertical mounting position with pressure connection facing downwards.



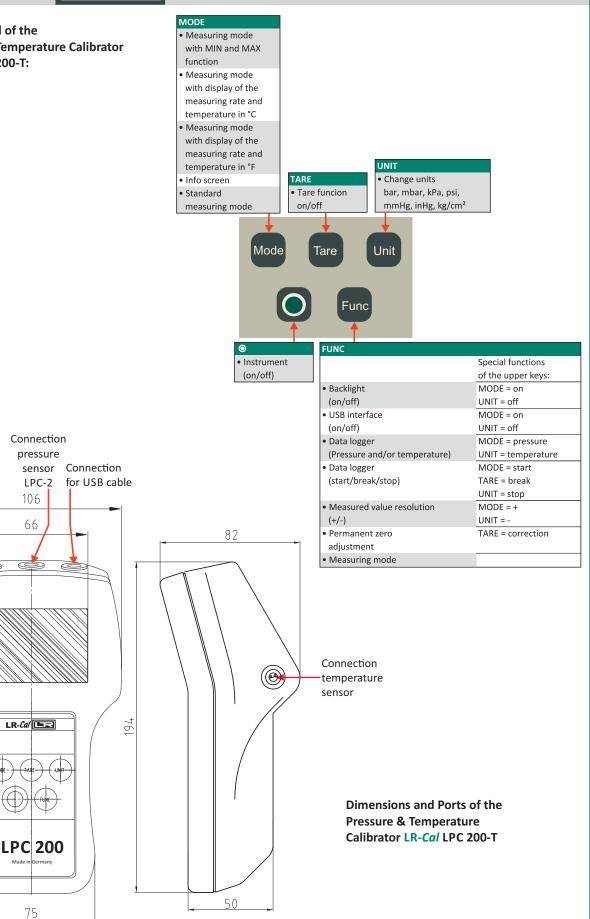
Pressure & Temperature Calibrator ±0.025% FS / ±0.05°C

LPC 200-T

They keypad of the **Pressure & Temperature Calibrator** LR-Cal LPC 200-T:

Power

Connection



DRUCK & TEMPERATUR Leitenberger GmbH • Bahnhofstr. 33 • D-72138 Kirchentellinsfurt • GERMANY Tel. +49 (0) 7121-90920-0 • Fax +49 (0) 7121-90920-99 • DT-Info@Leitenberger.de • www.LR-Cal.net • www.druck-temperatur.de

Pressure & Temperature Calibrator ±0.025% FS / ±0.05°C





Scope of Standard Delivery:

- Digital indicator LR-Cal LPC 200-T
- 1 Reference pressure sensor LPC-2 (to be ordered separately)
- 1 Reference temperature probe Pt 100 (4-wire, 195 x 6 mm)
- Mains Power Charger 110...230 VAC (with EC/UK/US adapters)
- PC Software LPC-Cal
- USB interface cable
- Factory certificates of calibration for pressure and temperature
- Operating manual

Optional Accessories:

- Transit cases with custom foams
- Pressure test pumps
- Pressure comparison pumps
- Threaded adapters
- DKD-/DAkkS certificates
- Magnetic hook LPC200-MAH
- Support loop LPC200-SCH







PC-Software LPC-Cal:

This Windows Software is used for the calibration (inspection equipment monitoring) of mechanical and electronic pressure measuring devices. Features: simple step-by-step calibration, user-friendly interface, customer-specific input of the calibration steps, generation of 3.1 certificates in accordance with EN 10204, customer-specific test reports possible (EXCEL-based). Languages: German/English/Spanish/French. Also the logged data can be transferred to PC in tabular form in an EXCEL file.

Requirements: PC with Windows XP, 2000 or 7 and EXCEL version 2000, XP, 2003 or 2007.







