

for small (pneumatic) pressure

LCC 100

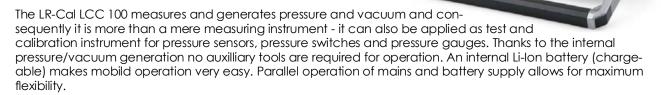
Electronic Pressure Controller and Calibrator LR-Cal LCC 100

Rel. 20250821

• Generates and measures pressure and vacuum

• Pressure up to 1 mbar, 10 mbar, 100 mbar and 1,000 mbar (vacuum max. -600 mbar), incl. factory calibration certificate

- Uncertainty up to ±0.1% FS (±1 digit)
- Great adjustment accuracy (0.01% FS)
- Chargeable Li-Ion battery
- Generates pressure+vacuum by pressing a key



Typical applications:

- Mobile and stationary pressure standard for low pressure and vacuum
- Mobile and stationary check of all kind of pressure reading instruments
- Mobile and stationary pressure and vacuum source for calibration purposes
- Leak test

Technical Data:

Туре	LR-Cal	LCC 100-1	LCC 100-10	LCC 100-100	LCC 100-1000	
Order-Code:		LCC-100-1	LCC-100-10	LCC-100-100	LCC-100-1000	
Pressure range:		1 mbar	10 mbar	100 mbar	1.000 mbar	
Vaccum generation:		max600 mbar, more via ext. pressure pump LR-Cal LPP 40				
Overpressure:			5-fold		2-fold	
Uncertainty:	±1 Digit	±0.3% FS		±0.1% FS		
Linearity:	±1 Digit	±0.2% FS	±0.2% FS ±0.1% FS			
Hysteresis		max. ±0.1% FS				
Measurement principle:		inductive				
Temperature drift of the internal reference sensor:		Zero point: 0.003% FS/K (0% via ZERO balance) Span: 0.03% FS/K				
inemanerence sensor.		automatic (in settable time spans, possible to switch off), or				
ZERO balance:		manual (by pressing the ZERO buttom)				
Long-term stability of the		0.1% FS per year (typical)				
internal reference sensor:						
Temperature ranges:		Working: +10+40°C; Storage: -10+70°C				
Usable pressure range:		-10+110%				
Adjustment accuracy:		0.001% FS				
Adjustment time:		depending on volume, < 5 s				
Measurement media:		Air, non-aggressive and corrosion-free dry gases				
		RL = controlling pressure				
Operation modes:		SS = measuring pressure				
	AUIO) = individually definable pressure profile				
D : 1		Remote-controlled operation (via USB or RS232 interface)				
Display:		Graphic display (white on blue background)				
Interfaces:		USB and RS232				
Supply:		24 VDC/1 A, build-in Li-lon battery				
		(typical: 8 h continuous operation)				
Dun and the state of		Mains charger 90264 VAC				
Pressure ports:		6.6 x 11 mm (for flexible hose with 6 mm inner diameter)				
Dimensions		H 102.6 x W 257 x D 271 mm (without handle)				

Please note: The usable pressure range of the LR-Cal LCC 100 types is -10%...+110% of the pressure range, depending on type. To achieve larger vacuum values, user can change the +/- pressure port connections.

Pressure Controller and -Calibrator LCC 100 for small (pneumatic) pressure



Operation modes of the LR-Cal LCC 100

• Measure: The measuring mode ("MESS") is used to measure a gauge or differential pressure. In this operation mode the internal pump of the LR-Cal LC 100 is deactivated. The applied pressure, measured by the

internal reference sensor, is shown in the display.



• Control: The control mode ("CTRLW) is used to calibrate pressure transmitter, pressure switches or pressure

gauges. In this operation mode the internal pump of the LR-Cal LCC 100 is activated, the

pressure is adjusted to the set point. The pressure value is shown on the display.

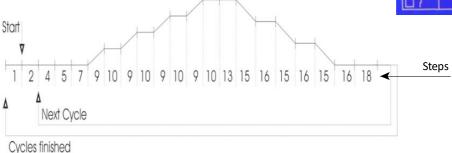
Auto: In the "AUTO" mode, a calibration procedure can be defined. This

mode allows a comfortable calibration of several test specimen with same specifications. The calibration can be run AUTOmatically

in this mode.

Following graphic shows the principle of a calibration procedure:

VENT	+10.000	mban
Z9kl.	Phase Zeit	1 s
U#	Druck	+ 0.002
	+ 6%	+ 6.666



Steps:

- Wait for start command (pressing OK key) [1]
- Duration of ZERO balancing of the system [4]
- [9] Adjustment time to the next step
- Dwell time [10]
- [13] Delay time at max. pressure step
- Adjustment time to the next step [15]
- [16] Dwell time at ZERO point
- Delay time (adjustable) [18]



• Leaktest: In the CTRL mode, connected test specimen can be tested to leakage/tightness by pressing the LEAK key.

Back view of the LR-Cal LCC 100



Front panel of the LR-Cal LCC 100



[2] Delay time (adjustable)

[7] Dwell time at ZERO point

Optional Accessories:

Spare part: Mains supply 90...264 VAC (47...63 Hz)

Order-Code: LCC-100-NT (1 pc. included in standard supply of the equipment)

Carrying case with foam inserts: Order-Code: LCC-100-KOFFER



Pressure test pump LR-Cal LPP 40 Order-Code: LPP-40, -0.95...+40 bar



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