

Pressure Controller and -Calibrator for small (pneumatic) pressure

LCC 100

Rel. 20220223

Electronic Pressure Controller and Calibrator Model LR-Cal LCC 100

- generates and measures pressure and vacuum
- pressure up to 1 mbar, 10 mbar, 100 mbar and 1000 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 by pressing a key

The LR-Cal LCC 100 measures and generates pressure and vacuum and

consequently it is more than a mere measuring instrument - it can also be applied as test and calibration instrument for pressure sensors, pressure switches and pressure gauges. Thanks to internal pressure/vacuum generation no auxiliary tools are required for operation. An internal Li -Ion battery (chargeable) makes mobile operation very easy. Parallel operation of mains and battery supply allows for maximum flexibility.

Typical applications:

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

Technical Data:

Туре		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	1000 mbar
Overpressure:		5-fold	5-fold	5-fold	2-fold
Uncertainty:	±1 digit	±0.3% FS	±0.1% FS	The integrated electr. pump can make max600 mbar vacuum. If a larger vacuum is required, an external vacuum source is needed,	
Linearity:	±1 digit	±0.2% FS	±0.1% FS		
Hysteresis:		max. 0,1% v.E.		e.g. calibration handpump model LR-Cal LPP 08.	
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			
ZERO balance:		 automatic (in settable time spans, possible to switch off), or manual (by pressing the ZERO button) 			
Long-term stability of the internal reference sensor:		0.1% FS per year (typical)			
Temperature range:		Working: +10°C+40°C; Storage: -10°C+70°C			
Usable pressure measuring range:		-10+110%			
Adjustment accuracy:		0.01% FS			
Adjustment time:		depending on volume <5 sec.			
Measurement media:		Air, non-aggressive and corrosion-free dry gases			
Operation modes:		• CTRL controlling pressure • MESS measuring pressure • AUTO individually definable pressure profile • 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-Ion battery (8h typical) and mains charger 90264 VAC			
Pressure ports:		6,6 x 11 mm (for flexible hose with 6 mm diameter)			
Dimension:		Height 102.6 x Width 257 x Dept 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.

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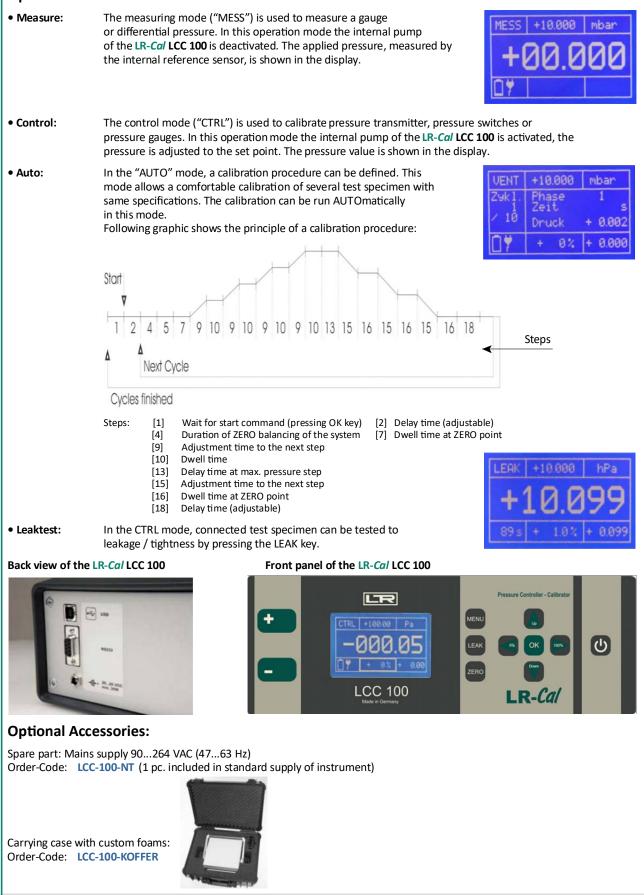


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Operation modes of the LR-Cal LCC 100



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