

## Digital handheld manometer LR-Cal Serie 3000

- Easy operation, robust and very good performance
- Measurement of pressure, vacuum and differential pressure (Negative and positive reading)
- Pressure ranges from 0...25 mbar to 0...8 bar
- Zeroing by key-press
- Display in changeable pressure units, in addition auto-range function, display of the measured value in best possible resolution
- Min- and Max value storage
- HOLD function ("freezing" of indicated value)
- Switchable backlight
- Protective cover with magnet included



The digital handheld manometer **LR-Cal Serie 3000** are measuring with a piezoresistive sensor and are suitable for pressure/vacuum/differential pressure readings with clean and dry gases (e.g. air, nitrogen, etc.).

The **LR-Cal Serie 3000** instruments are used, for example, in laboratories, in quality assurance, by plant engineers, in the heating and ventilation industry, in municipal and power plants and, more generally, in industry for commissioning, maintenance and troubleshooting of pneumatic systems.

Order-Code	Range [mbar]		maximal overpressure [bar]	Resolution [mbar]	Accuracy [% of reading]	switchable pressure units
	nominal	maximal				
<b>3000-3002</b>	<b>25</b>	30	0.25	0.001 (<9.999) 0.01 (>10.00)	1.0 ±1 digit or ±0.003 mbar	Pa + hPa + kPa + mbar psi + inHg + mmHg
<b>3000-3015</b>	<b>150</b>	180	1.35	0.01 (<19.99) 0.1 (>20.0)	1.0 ±1 digit or ±0.03 mbar	Pa + hPa + kPa + mbar psi + inHg + mmHg
<b>3000-3100</b>	<b>1000</b>	1500	3.0	0.1 (<199.9) 1 (>200)	1.0 ±1 digit or ±0.3 mbar	hPa + kPa + mbar + bar psi + inHg + mmHg
<b>3000-3800</b>	<b>8000</b>	9999	16.0	1	1.0 ±1 digit or ±5.0 mbar	hPa + kPa + mbar + bar psi + inHg + mmHg

### Technical Data

Pressure ports:	2 x for hose with 8 mm inner diameter
Reaction delay:	T 90 < 10 s
Display:	7-segment LCD, transfective, W 46 x H 48 mm, 2 lines each 4 figures
Power supply:	Batteries 2 x 1.5V Alkaline (AA, IEC, LR6), included in standard delivery
Battery life time (ECO mode):	max. 60 hours without or max. 40 hours with backlight
Dimensions:	66 x 37 x 143 mm (width x height x depth, incl. protective cover)
Housing material:	Plastic (PA), protection case soft plastic (TPE)
Permitted ambient temperature:	0°C...+40°C
Permitted medium temperature:	0°C...+40°C
Permitted storage temperature:	-20°C...+50°C
Electrical safety:	Protection degree IP 40 (EN 60529)
Electromagnetic compatibility (EMC):	Interference emission DIN EN 55022 (VDE 0878-22) Interference immunity DIN EN 61000-4-3 (VDE 0847-4-3) ESD DIN EN 61000-4-2 (VDE 0847-4-2)

## Serie 3000 Digital handheld manometer for pressure, vacuum & differential pressure

LR-Cal



**Keypad:** Foil keypad (5 buttons)

**Weight:** approx. 250 g

**Directives and standards:** 2014/30/EU (CE), DIN EN 50379, WEEE/RoHS

### Scope of standard delivery digital handheld manometer LR-Cal Serie 3000:

- Handheld device (in single carton box)
- 2 batteries 1.5 V (size AA)
- Test report
- Operating manual (German/English)

### Accessories for digital handheld manometer LR-Cal Serie 3000:

#### For usage with pressure test pump LR-Cal/ LPP 10 you need:

- Adapter „D8 to D3“ (fastening by means of set screw at one pressure port of the instrument)  
Order-Code: [3000-ADAPT-I25](#)



#### For usage with pressure test pumps LR-Cal 2911 and LR-Cal 2941 you need:

- Adapter T-Piece (push-pull-principle, in exchange for the T-piece supplied with the pump)  
Pneumatic connection 1: for hose with 6 mm outer diameter  
Pneumatic connection 2: for hose with 4 mm outer diameter  
Pneumatic connection 3: for hose with 4 mm outer diameter  
Order-Code: [T-STUECK-4-6-4](#)



- Adapter „D8 to D3“ (fastening by means of set screw at one pressure port of the instrument)  
Order-Code: [3000-ADAPT-I25](#)



- Pressure hose 0.5 m, outer diameter 4 mm, inner diameter 2.5 mm  
Order-Code: [LPP-10-SCHLAUCH-0050](#)



#### Optional storage and transport cases (with molded form insert):

- with additional space for pressure test pumps LR-Cal 2911 and LR-Cal 2941  
Order-Code: [2950-KOFFER](#)
- with additional space for pressure test pump LR-Cal LPP 10  
Order-Code: [LPP-KOFFER](#)



#### Recommended pressure test pumps:

- Pressure test pump LR-Cal/ LPP 10  
Generating pressure -0.85...+10 bar, Order-Code: [LPP-10](#)  
with very sensitive pressure fine adjustment  
Note: for use with the LR-Cal/ Serie 3000 handheld, 1 threaded adapter must be disconnected from one of the two test hoses of the pump and 1 adapter [3000-ADAPT-I25](#) must be plugged in.



- Pressure test pumps LR-Cal 2911 and LR-Cal 2941  
Version 2911: generating pressure up to 5 (7) bar, Order-Code [500.9.000.1005.0](#)  
Version 2941: generating vacuum up to -0.9 bar, Order-Code [500.9.000.9800.0](#)  
with very sensitive pressure fine adjustment  
Note: for use with the LR-Cal/ Serie 3000 handheld, the T-piece, supplied with the pump must be changed to T-piece [T-STUECK-4-6-4](#) and the hose [LPP-10-SCHLAUCH-0050](#) and the connection adapter [3000-ADAPT-I25](#) must be used.

