

Digital Test Pressure Gauge **LR-Cal** LDM 70-E25: with stainless steel sensor

Digital Test Pressure Gauge **LR-Cal** LDM 70-K50: with ceramic sensor

- Battery powered, rugged, rotatable housing (DS 70 mm)
- 4.5-digit LC display (digit height 11 mm)
- 6-digit additional display to show the selected pressure unit (height 7.5 mm)
- Pressure unit switchable (psi-bar/mbar-mWS-inHg-cmHg/mmHg-kPa/MPa)
- Easy configuration via three push buttons
- Ingress protection IP 65
- Ranges from 0/1.45 psi to 0/8,700 psi (0/100 mbar to 0/600 bar)
- MIN and MAX value storage

The display is continuously rotatable so that a clear readability is guaranteed even in unusual installation positions. The **LR-Cal** LDM 70 can be operated menu-driven via three push-buttons. Besides showing information about the nominal pressure range as well as minimal and maximal pressure of the process, several pressure units (PSI, bar, mbar, mWC, inHg, cmHg, mmHg, kPa, MPa) and the position of the decimal point can be set. The instruments zero and span can be calibrated, the **LR-Cal** LDM 70 can be set to factory default values via menu.



Technica data:	Type LDM 70-E25	Type LDM 70-K50
Pressure Ranges: (see tab. on back page)	all standard ranges, gauge pressure, absolute pressure, vacuum and compound ranges	all standard ranges 0/1.6 to 0/600 bar
Nominal case diameter:	DS 70 mm / 27.6 inches	
Accuracy (BFSL)	±0.125% f.s. (ranges ≤ 5.8 psi / 400 mbar: ±0.25% f.s.)	±0.25% f.s.
Measuring rate:	5 per second	
Thermal error (zero-point and span within temperature compensated range)	Tolerance band: Ranges ≤ 0.1 bar: ≤± 2.0% f.s.; average TC: ±0.3% f.s. / 10 K Ranges ≤ 0.25 bar: ≤±1.5% f.s.; average TC: ±0.2% f.s. / 10 K Ranges ≤ 0.4 bar: ≤±1.0% f.s.; average TC: ±0.14% f.s. / 10 K Ranges ≤ 1.0 bar: ≤±0.1% f.s.; average TC: ±0.1% f.s. / 10 K Ranges >1.0 bar: ≤±0.75% f.s.; average TC: ±0.07% f.s. / 10 K	≤±0.2% f.s. / 10 K
Temp. compensated range:	Ranges ≤0.4 bar: 0...50°C; ranges >0.4 bar: 0...70°C	-25...+85°C
Permissible temperatures:	Medium: -4/+185°F=-20/85°C; Ambient: -4/+158°F=-20/70°C; Storage: -22/+176°F=-30/80°C	
Material display housing:	PA 6.6 polycarbonate	
Material pressure port:	stainless steel 1.4404	
Material diaphragm:	stainless steel 1.4435	ceramic Al ₂ O ₃ 96%
Material seals:	FKM	
Display:	LCD 1.57" x 1.18"= 40 x 30 mm; 4 1/2 digit 7-segment-main display, digit height 11 mm, Indication range ±19999; 6-digit 14-segment additional display, digit height 7.5 mm	
Electromagnetic compatibility:	emission and immunity according to EN 61326	
Mechanical stability:	vibration: 5 g RMS (20...2000 Hz); shock: 100 g / 11 msec.	
Supply:	3.6 V lithium batteries, 2 pcs. (type 1/2 AA)	
Data memory:	EEPROM (non-volatile)	
Ingress protection:	IP 65	
Installation position:	any (the LDM 70 is calibrated in vertical position with pressure port down. If this position is changed on installation, there can be slight deviations in the zero-point for LDM-70-E25 ranges <1 bar	
Other data:	weight 300 g; AD-converter solution: 10 Bit; mech. operational life: > 100 x 10 ⁶ pressure cycles; battery life: app.. 5 years in standby mode;	
Pressure port:	1/2" BSP male, 1/4" BSP male, 1/2" NPT male, 1/4" NPT male	



The Digital Test Pressure Gauges **LR-Cal** LDM 70-K50 are available as complete pressure calibration kits (case, with calibration testpump **LR-Cal** LPP 40, **LR-Cal** LPP 60 or **LR-Cal** LPP 700).

For a stationary use, as calibration pressure source we recommend our pressure comparators (spindle pumps) series **LR-Cal** LSP.

