

Digital Test Pressure Gauge LDM 70 battery operated, accuracy 0.125% or 0.25% FS

LDM 70

Rel. 20141211

LR-Cal LR

Digital Test Pressure Gauge LR-*Cal* LDM 70-E25: Accuracy ±0,125% FS (BFSL) Digital Test Pressure Gauge LR-*Cal* LDM 70-K50: Accuracy ±0.25% FS (BFSL)

- 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 garanteed 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.) BFSL	±0.25% f.s. BFSL								
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: 050°C; ranges >0,4 bar: 070°C	-25+85°C								
Permissible temperatures:	Medium: -4/+185°F=-20/85°C; Ambient: -4/+158°F=-20/70°C; Stora	ge: -22/+176°F=-30/80°C								
Material display housing:	PA 6.6 polycarbonate									
Material pressure port:	stainless steel 1.4571 / 1.4435									
Material diaphragm:	stainless steel 1.4435	ceramic Al ₂ O ₃ 96%								
Material seals:	wetted seals: FKM (optional: EPDM, NBR, others or	n request)								
Display:	LCD 1.57" x 1.18"= 40 x 30 mm; 4 1/2 digit 7-segment-main displation range ±19999; 6-digit 14-segment additional display									
Electromagnetic compatibility:	emission and immunity according to EN 61326									
Mechanical stability:	vibration: 5 g RMS (202000 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 po there can be slight deviations in the zero-point for LDM-70-E25 r.									
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 are available as complete pressure calibration kits (case, with calibration testpump LR-Cal LPP 40, LR-Cal LPP 60 or LR-Cal LPP 700).

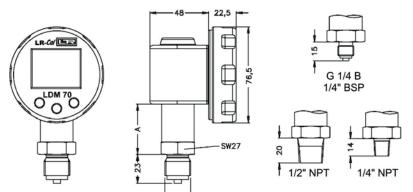
For a stationary use, as calibration pressure source we recommend our pressure comparators (spindle pumps) series **LR-***Cal* **LSP**.

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Dimensions:



G 1/2 B

dimension "A" for type **LDM70-E25**: 35 mm

dimension "A" for

type **LDM70-K50**: 41.5 mm

			1/2 B	51										
Ord	ler-Codes and Pre	ssure Ranges:												
	L D M 7 0			Т		-		-	П					
		, _		<u> </u>	<u> </u>		Т		Т	Т	perm.	overpi	ressure	available as
	Accuracy ±0.125%	f.s. E 2 5	i	İ	İ		İ	i	i	İ	(bar),	type L	.DM70-	absolute range
	Accuracy ±0.25%	f.s. K 5 0	i i	I I	i		İ	i	i	İ	-E2		-K50-	
*)	Range 01.45	psi / 0100 mbar	8 1	1 0	0	-	0	l i	i	İ	0,5	5	-	no
*)	Range 02.32	2 psi / 0160 mbar	8	1 6	0	-	0	i	i	i	0,5	5	-	no
*)		3 psi / 0250 mbar	-	2 5	0	-	0	l i	i	İ	1		-	no
*)	Range 05.80) psi / 0400 mbar	8 4	4 0	0	-	0	l i	İ	İ	1		-	yes
**)	Range 08	.70 psi / 00,6 bar	0 (0 0	0	-	6	ı	ĺ		3		-	yes
**)	Range 0	.14.5 psi / 01 bar	0 (0 0	1	-	0	- 1			3		-	yes
	Range 02	3.2 psi / 01,6 bar	0 (0 0	1	-	6	- 1			6		4	yes
	Range 03	6.3 psi / 02,5 bar	0 (0 0	2	-	5	1			6		4	yes
	Range 0	.58.0 psi / 04 bar	0 (0 0	4	-	0	1			20)	10	yes
	Range 0	.87.0 psi / 06 bar	0 (0 0	6	-	0	- 1			20)	10	yes
	Range 014	l5.0 psi / 010 bar	0 (0 1	0	-	0	- 1			20)	20	yes
	Range 023	32.1 psi / 016 bar	0 (0 1	6	-	0	- 1			60)	40	yes
	-	32.6 psi / 025 bar) 2	5	-	0	- 1			60)	40	yes
	Range 058	30.2 psi / 040 bar	0 () 4	0	-	0	- 1			100)	100	yes
	•	70.2 psi / 060 bar		0 6	0	-	0	- 1			140)	100	yes
	Range 014	50 psi / 0100 bar	0 1	1 0	0	-	0	- 1			340)	200	yes
	_	21 psi / 0160 bar		1 6	0	-	0	- 1			340)	400	yes
	Range 036	26 psi / 0250 bar	0 2	2 5	0	-	0	- 1			600)	400	yes
	Range 058	02 psi / 0400 bar	0 4	4 0	0	-	0	- 1			600)	600	yes
	Range 087	02 psi / 0600 bar	0 6	6 0	0	-	0	- 1			100	0	1000	yes
**)	•	/ 0 in Hg / -1/0 bar		0 0	0	-	0	- 1			1		-	no
**)	Range -30 inHg / +8	•	-	0 0	0	-	6	- 1			3		-	no
	0 0	22 psi / -1/+1,5 bar			1	-	5	-			6		4	no
		43.5 psi / -1/+3 bar	$\overline{}$	0 0	3	-	0	- 1			20		4	no
	0 0	72.5 psi / -1/+5 bar			5	-	0	- 1			20		10	no
	Range -30 inHg / +1:	•	$\overline{}$		9	-	0	- 1			20		20	no
	Range -30 inHg/+21	'		_	5	-	0				60		40	no
	Range -30 inHg/+3	•) 2	4	-	0				60		40	no
	Range -30 inHg/+56	•	$\overline{}$	3	9	- 1	0	<u> </u>		<u> </u>	100)	100	no
	Pre	ssure Port thread	1/2" E	BSP r	nale	(sta	anda	rd) G	1	2				Order-Code for
		Pressure	Port th	nread	1/4"	BS	P m	ale G	1	4				extra charge for
		Pressure	Port th	read	1/2"	ΝP	T m	ale N	1	2				Absolute version:
		Pressure	Port th	nread	1/4"	NP	T m	ale N	1	4				LDM70-MP-ABS
	*)	= only with accura							25 av	— ailat	n/e			
	441	only with accure	10y ±0	.20/0	us i	ypu		vi 10-L2	Java	anak	,,,			

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= only with accuracy ±0.125% as type LDM-70-E25 available