

**Digital reference pressure gauge type LR-Cal/ TLDMM-A01: Cl. 0,1**  
**Digital reference pressure gauge type LR-Cal/ TLDMM-A02: Cl. 0,2**

- **Ranges up to 3000 bar available**
- 1 year autonomy without recharging (battery operated)
- Pressure units “bar”, “mbar”, “psi”, “MPa”, “kPa” switcheable
- PEAK function (positive and negative)
- Digital Filter (programmable)
- Pressure connection: 1/2" BSP male
- Clear easy to read LCD display with large numbers



The **LR-Cal/ TLDMM-A01** and **LR-Cal/ TLDMM-A02** are microprocessor based digital test pressure gauges, made of particularly high long-term stable analogue section and an 16 bit A/D converter which ensure 65,000 internal divisions. These features, together with a 0.1% accuracy class (type **LR-Cal/ TLDMM-A01**) resp. 0.2% accuracy class (type **LR-Cal/ TLDMM-A02**), make them ideal as a laboratory instrument: in fact the **LR-Cal/ TLDMM-A01** and **LR-Cal/ TLDMM-A02** are proposed as a first line sample for Calibration Laboratories.

The digital test pressure gauges **LR-Cal/ TLDMM-A01** and **LR-Cal/ TLDMM-A02** have internal batteries with 1 year autonomy, also guaranteed by the Auto-PowerOff function, which activates if no measurements changes are detected in the previous 30 minutes. A **certificate of calibration** is included to each instrument.

The user can select different engineering units (psi, bar, mbar, MPa, KPa), resolution and digital filter, suitable for measurements to be performed. In order to increase the level of integration among components, a combined (traditional and SMT) technology has been used, that makes this test pressure gauges more resistant against mechanical stresses and vibrations and guarantees maximum reliability for the circuit. The display also shows an analogue indication bar for pressure, that is still on, even in the programming menu. If you are in need of an USB interface, please ask for our model **LR-Cal/ LDM 80**.

As calibration pressure source we recommend our pressure test pumps **LR-Cal/ LPP 40** (pneumatic) or **LR-Cal/ LPP 700** resp. **LR-Cal/ LPP 1000** (hydraulic) as well as our pressure comparison pumps **LR-Cal/ LSP**.



**TLDMM-A01**  
**TLDMM-A02**

**Digital reference pressure gauge**  
**Accuracy  $\pm 0.1\%$  FS or  $\pm 0.2\%$  FS**



**Technical data:**

<b>Linearity and Hysteresis:</b>	TLDMM-A01: $\pm 0.1\%$ FS; TLDMM-A02: $\pm 0.2\%$ FS
<b>Readings per sec. (0 filter)</b>	10 (100 ms)
<b>Temperatures:</b>	Reference: +23°C, Ambient 0...+50°C, Storage -10...+60°C
<b>Temperature Effect (1°C):</b>	on Zero $< \pm 0.002\%$ ; on Sensitivity $< \pm 0.002\%$
<b>Programmable Functions:</b>	Zero: 50%, digital Filter: 0...99% Display Resolution: 1, 2, 5 or 10 Digits Pressure Units: bar, mbar, MPa, kPa, psi Peak-Function: Positive (+) and Negative (-)
<b>Display:</b>	LCD, height 16 mm
<b>Power Supply:</b>	4 Alkaline Batteries 1,5 V (size AA)
<b>Mechanical Limit Values (referred to nominal pressure):</b>	Service Pressure: 100% FS; High Dynamic Pressure: 75% FS Permissible Pressure: max. 150% FS; Breaking Pressure: $> 300\%$ FS
<b>Standard Process Coupling:</b>	1/2 BSP male
<b>Recommended Gasket:</b>	USIT A 63-18
<b>Tightening Torque:</b>	28 Nm (Tightening Wrench: 27 mm)
<b>Housing:</b>	Material: aluminum, Dimensions: appr. 132 x 80 x 48 mm
<b>Protection:</b>	IP 40

**Order Codes: - inclusive factory certificate of calibration**

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Accuracy:		1						
	$\pm 0.1\%$ FS	1						
	$\pm 0.2\%$ FS	2						Display resolution
<b>Pressure range:</b>	0-1 bar	0	0	0	1			0.001 bar
	0-2.5 bar	0	0	0	2			0.001 bar
	0-5 bar	0	0	0	5			0.001 bar
	0-10 bar	0	0	1	0			0.01 bar
	0-20 bar	0	0	2	0			0.01 bar
	0-50 bar	0	0	5	0			0.01 bar
	0-100 bar	0	1	0	0			0.1 bar
	0-250 bar	0	2	5	0			0.1 bar
	0-350 bar	0	3	5	0			0.1 bar
	0-500 bar	0	5	0	0			0.1 bar
	0-700 bar	0	7	0	0			0.1 bar
	0-1000 bar	1	0	0	0			1 bar
	0-1500 bar	1	5	0	0			1 bar
	0-2000 bar	2	0	0	0			1 bar
	0-2500 bar	2	5	0	0			1 bar
	0-3000 bar	3	0	0	0			1 bar
	-1/+1 bar	1	0	1	0			0.001 bar
	-1/+2.5 bar	1	0	2	5			0.001 bar
	-1/+5 bar	1	0	5	0			0.001 bar
	-1/+20 bar	1	0	2	0			0.01 bar

**Recommended accessory** if used with pressure test pump **LR-Cal LPP 40**: Order code **VRS-G12** volume reducer.  
**Build-in version** for panel mounting (front flange and back conn.): add **-EBA** to the order-code of the instrument.  
**Mains power supply** 230 VAC (instead of batteries): add **-SNT** to the order-code of the instrument.