

Digital Test Pressure Gauge TLDMM-A01/-A02
Accuracy $\pm 0.1\%$ FS / $\pm 0.2\%$ FS

TLDMM-A01
TLDMM-A02

TLDMM-A01: Digital Test Pressure Gauge $\pm 0.1\%$ f.s.
TLDMM-A02: Digital Test Pressure Gauge $\pm 0.2\%$ f.s.

- Ranges up to 1000 bar available
- 1 year autonomy without recharging (battery operated)
- Pressure units "bar", "mbar", "psi", "MPa", "kPa" switchable
- PEAK function (positive and negative)
- Digital Filter (programmable)
- Pressure connection: 1/2" BSP male
- Clear easy to read LCD display with large numbers

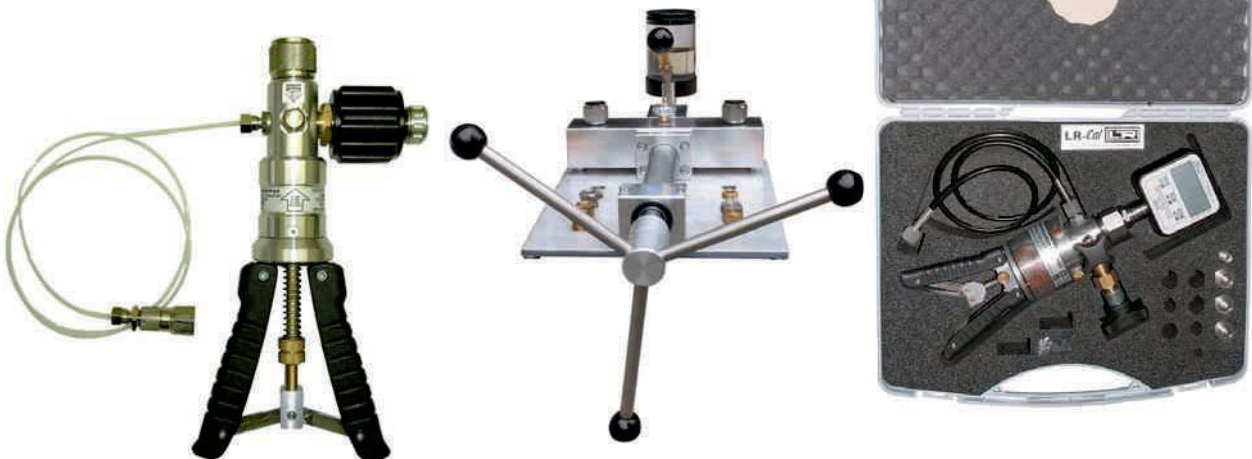


The **TLDMM-A01** and **TLDMM-A02** are microprocessor based digital test pressure gauges, made of particularly high long-term stable analogue section and an 16 bit A/D converter which ensure 65,000 internal divisions. These features, together with a 0.1% accuracy class (type TLDMM-A01) resp. 0.2% accuracy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

The digital test pressure gauges **TLDMM-A01** and **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.

As an option, the **TLDMM-A01** and **TLDMM-A02** are available with a RS232 interface. A connection cable and a simple Software to read out the RS232 interface can be supplied on request. Furthermore, a version for mains power supply 230 VAC is available.



The **TLDMM-A01** and **TLDMM-A02** can be used with portable or stationary calibration pressure sources like **LPP 30** pneumatic calibration handpump (*left image*), in a kit **LPP-KIT-HD-20** with **LPP 700** or **LPP 1000** hydraulic handpump (*right image*), or with **LSP** pressure comparison spindle pumps (*center image*).



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TLDMM-A01
TLDMM-A02

Linearity and Hysteresis:	TLDMM-A01: ≤±0.1% FS; TLDMM-A02: ±0.2% FS
Readings per sec. (0 filter)	10 (100 ms)
Temperatures:	Reference: +23°C, Ambient 0...+50°C, Storage -10...+60°C
Temperature Effect (1°C):	on Zero ≤±0.002%; on Sensitivity ≤±0.002%
Programmable Functions:	Zero: 50%, digital Filter: 0...99% Display Resolution: 1, 2, 5 or 10 Digits Pressure Units: bar, mbar, MPa, kPa, psi Baudrate RS232 (Option): 19200, 9600, 4800 Peak-Function: Positive (+) and Negative (-)
Display:	LCD, height 16 mm
Power Supply:	4 Alkaline Batteries 1,5 V (size AA)
Mechanical Limit Values (referred to nominal pressure):	Service Pressure: 100% FS; High Dynamic Pressure: 75% FS Permissible Pressure: max. 150% FS; Breaking Pressure: >300% FS
Standard Process Coupling:	1/2 BSP male
Recommended Gasket:	USIT A 63-18
Tightening Torque:	28 Nm (Tightening Wrench: 27 mm)
Housing:	Material: aluminum, Dimensions: appr. 132 x 80 x 48 mm
Protection:	IP 40

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Accuracy:										±0.1% v.E.										1																														(+ EBA for panel-mounting version with aluminum case 83x83 mm 1/2" BSP back connection)									
										±0.2% v.E.										2																																							
Range:										0-14.5 psi / 0-1 bar										0 0 0 1										R S 2 3 2										with RS232- interface										0.001 bar									
										0-36 psi / 0-2.5 bar										0 0 0 2																														0.001 bar									
										0-72.5 psi / 0-5 bar										0 0 0 5										(f r e i)										without interface										0.001 bar									
										0-145 psi / 0-10 bar										0 0 1 0																														0.01 bar									
										0-290 psi / 0-20 bar										0 0 2 0																														0.01 bar									
										0-725 psi / 0-50 bar										0 0 5 0																														0.01 bar									
										0-1450 psi / 0-100 bar										0 1 0 0																														0.1 bar									
										0-3626 psi / 0-250 bar										0 2 5 0																														0.1 bar									
										0-5076 psi / 0-350 bar										0 3 5 0																														0.1 bar									
										0-7252 psi / 0-500 bar										0 5 0 0																														0.1 bar									
										0-10153 psi / 0-700 bar										0 7 0 0																														0.1 bar									
										0-14503 psi / 0-1000 bar										1 0 0 0																														1 bar									
										0-21756 psi / 0-1500 bar										1 5 0 0																														1 bar									
										0-29007 psi / 0-2000 bar										2 0 0 0																														1 bar									
										-30 in Hg/+14.5 psi / -1/+1 bar										1 0 1 0																														0.001 bar									
										-30 in Hg/+35 psi / -1/+2.5 bar										1 0 2 5																														0.001 bar									
										-30 in Hg/+72.5 psi / -1/+5 bar										1 0 5 0																														0.001 bar									
										-30 in Hg/+290 psi / -1/+20 bar										1 0 2 0																														0.01 bar									

Option: build-in version for panel-mounting: add **-EBA** to the order-code of the instrument.

Option: mains power supply 230 VAC (instead of batteries): add **-SNT** to the order-code of the instrument.