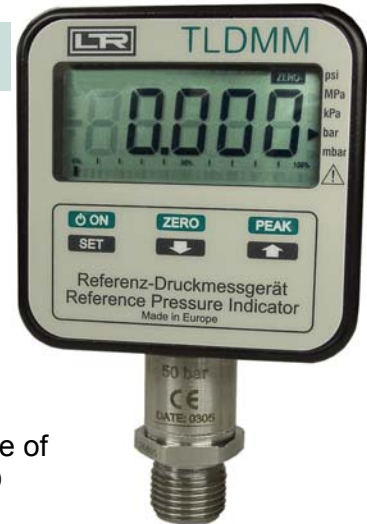


#### Digital Reference Pressure Indicator Type TLDMM (electronic Pressure Calibrator)

- **Accuracy:  $\pm 0.05\%$  v.E., Ranges up to 2000 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
- Including S.I.T. Calibration Certificate (similar to DKD cert.)



The **TLDMM** is a microprocessor based digital pressure gauge, 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 0.05% accuracy class, make it ideal as a laboratory instrument: in fact the **TLDMM** is proposed as a first line sample for Calibration Laboratories and is provided with a S.I.T. calibration certificate, traceable to international standard.

The pressure calibrator **TLDMM** has 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.

The user can select different engineering units (bar, mbar, psi, 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 reference gauge 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** is available with a RS232 interface. A connection cable and a simple Software to read out the RS232 interface can be supplied on request.

A carrying case and a S.I.T. calibration certificate are included in standard supply.



The **TLDMM** can be used with portable or stationary calibration pressure sources like LSP 1000 spindle pumps and portable calibration pump LPP 30 etc.



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### Technical Data:

Linearity and Hysteresis:	$\leq \pm 0.05\%$ 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 $\leq \pm 0,002\%$ ; on Sensitivity $\leq \pm 0,002\%$
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: Aluminium, Dimensions: appr. 132 x 80 x 48 mm
Protection:	IP 40
RS232-Interface (optional)	9-pole D-SUB (female)

### Order Code:

T L D M M - [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ]

Range:	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	max. Resolution
0-14.5 psi / 0-1 bar	0 0 0 1	R S 2 3 2	....with RS232-		0.0001 bar
0-36 psi / 0-2.5 bar	0 0 0 2		Interface		0.0005 bar
0-72.5 psi / 0-5 bar	0 0 0 5	( space).....	....without		0.0005 bar
0-145 psi / 0-10 bar	0 0 1 0		RS232		0.001 bar
0-290 psi / 0-20 bar	0 0 2 0				0.002 bar
0-725 psi / 0-50 bar	0 0 5 0				0.005 bar
0-1450 psi / 0-100 bar	0 1 0 0				0.01 bar
0-3626 psi / 0-250 bar	0 2 5 0				0.02 bar
0-5076 psi / 0-350 bar	0 3 5 0				0.05 bar
0-7252 psi / 0-500 bar	0 5 0 0				0.05 bar
0-10153 psi / 0-700 bar	0 7 0 0				0.05 bar
0-14503 psi / 0-1000 bar	1 0 0 0				0.1 bar
0-21756 psi / 0-1500 bar	1 5 0 0				0.2 bar
0-29007 psi / 0-2000 bar	2 0 0 0				0.5 bar
-30 inHg/+14.5 psi-1/+1 bar	1 0 1 0				0.0001 bar
-30 inHg/+35 psi / -1/+2,5 bar	1 0 2 5				0.0005 bar
-30 inHG/+72.5 psi / -1/+5 bar	1 0 5 0				0.0005 bar
-30 in Hg/+290 psi / -1/+20 bar	1 0 2 0				0.02 bar

**Recommended Accessory:** If the TLDMM shall be used with the calibration handpump **LPP 30** or with the pressure comparison pump **LSP**, we recommend the volume-reducer, order-code **VRS-G12**.



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