

# PRESS RELEASE

## Pressure Peak Recording, Hydraulic Systems

### Keeping Pressure Peaks Under Control

LEO 1 – the microprocessor-controlled digital pressure peak gauge from KELLER AG für Druckmesstechnik – polls the value for the pressure variable in a process 5000 times each second. The result: reliable detection of the dreaded pressure peaks – often of extremely short duration – due to fast-switching hydraulic valves, pump units and other causes. This means that prompt action can be taken to prevent damage due to cavitation, etc.

The dual digital display updates the measured value and the minimum or maximum value attained twice every second. In the compensated temperature range from 0 to 50 °C, typical overall accuracy is 0,2 %FS (Full Scale).

In addition, the LEO 1 from KELLER offers a feature that is especially useful in practice: each current measured value can be defined as the reference, simply by pressing a button. When this is done, the digital manometer no longer shows the actual value but the deviations from the specified setpoint instead.

With just two keys, the user can parameterise all the functions on the peak value manometer. These include a choice of five different units of measurement and neutralization of the stored extreme values at the start of an observation period. The device switches off automatically about 15 minutes after the last key is pressed. After switching over to continuous operation, the battery has sufficient capacity for up to 1400 hours in manometer mode and up to 180 hours in peak value mode.

The easy-to-handle LEO 1 is available in an IP65 housing with four practice-based measurement ranges of -1...3 bar to 0...1000 bar. The optional protective cover allows outdoor operation in all weather conditions. This instrument is also available in an Ex-protected version compliant with 94/9/EC.



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