

EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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DATA-SHEET



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WHY BUY
WHEN YOU CAN HIRE

DIGITAL MANOMETER WITH RECORD FUNCTION

LEO RECORD

ACCURACY: 0,1 %FS

LEO RECORD is an autonomous battery powered instrument with digital display designed to record pressure and temperature over long periods.

LEO RECORD offers the following advantages:

- High measuring accuracy, resolution and robustness
- High data security due to the use of a non-volatile memory
- Display of the actual pressure and the record status
- Recording of the pressure and temperature
- Simple and well structured configuration- and read-out software (Logger 4.x) for PC or PDA
- Combination of event-controlled recording and interval recording prevents unnecessary data being recorded (i.e. only measuring the pressure changes...)
- Installation data (and comments) of the measuring station can be stored in the instrument
- Pressure connection with G1/4" thread (other threads on demand)

The pressure is measured and displayed once per second (shortest interval). The top display indicates the actual pressure, the bottom display shows the record status.

LEO RECORD has two operating keys. The left key is to turn the instrument on, to select the functions and the pressure units. The right key executes the selected function or unit.

The instrument has the following functions:

- ZERO:** The ZERO-function allows to set any value as a new Zero reference.
- UNITS:** All standard instruments are calibrated in bar. The pressure can be indicated in the following units: bar, mbar/hPa, kPa, MPa, PSI, kp/cm² (m)H₂O.
- RECORD:** The record can be started or ended with the operating keys.
The configuration of the record takes place via interface/software.



Spezifikationen

Pressure Ranges ¹ , resolution	Ranges	Resolution	Overpressure
	-1...3 bar	1 mbar	10 bar
	-1...30 bar	10 mbar	60 bar
	0...300 bar	100 mbar	400 bar
	0...700 bar	100 mbar	700 bar
	0...1000 bar	100 mbar	1000 bar

¹ Other pressure ranges as well as instruments with relative pressure measuring cells on request

The factory setting of the Zero for the ranges ≤30 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with the ranges >30 bar are calibrated in a sealed gauge mode with 1 bar absolute pressure as a Zero reference.

Accuracy	0,1 %FS (including linearity, repeatability and hysteresis)		
Storage- / Operating Temperature	-10...60 °C / 0...50 °C		
Compensated Temperature Range	0...50 °C		
Measuring Cycle	Adjustable (shortest interval 1 x per second)		
Memory	≈ 57'000 measuring values with time indication @ a measuring cycle of ≤15 s ≈ 28'000 measuring values with time indication @ a measuring cycle of >15 s		
Supply	3,6 V Lithium battery, type SL-760		
Battery Life	up to 2 years @ 1 recording per second	up to 5 years @ 1 recording every 10 seconds	
Pressure Connection	G 1/4" (other threads on demand)		
Temperature Measurements	Accuracy typ. 1 °C		
Interface	RS485; rear-sided mating plug "Fischer" compatible with PC-converter cable K103-A (RS232) and K104-A(USB)		
Software Logger 4.x	The software is delivered along with the interface cable or may be downloaded from our web site		
Protection	IP 65		
Diameter x Height x Depth	76 x 118 x 42 mm		

Subject to alterations

12/04



KELLER

LOGGER 4.X

The Logger 4.x-Software is delivered along with the interface cable K103A (RS232) or K104A (USB). The software is compatible with Windows 2000/NT/XP/ME and 9X and allows to configure and read out our data loggers (DCX and LEO RECORD).

The measuring values may be graphically displayed, exported, air pressure compensated or converted into other units. The Online-function shows the actual values of the instrument.

The Logger includes the Reader and Writer.

WRITER

The Writer enables the start and configuration of LEO RECORD.

General functions:

- Online-display of measuring channels
- Status-indication
- Editing of installation data
- Ring buffer or normal
- Readjustment of the zero

Recording parameter:

- Pressure- and temperature channels selectable

Start methods:

- Time start
- When exceeding or dropping below a certain pressure
- Measuring interval for starting conditions selectable

Recording methods:

- Interval (1s...99 days) and event-controlled recording
- Recording at pressure change
- Averaging over selectable number of measurements
- Combination of fixed interval and event recording possible

READER

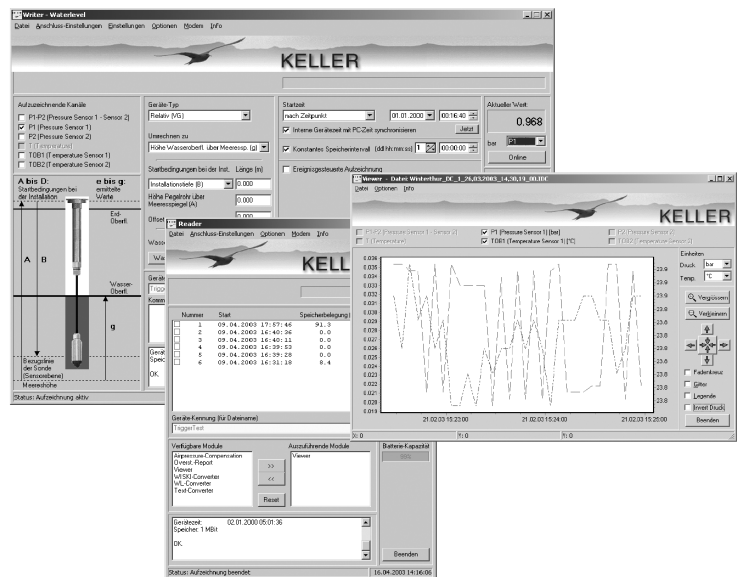
The Reader allows the data to be read out into a file and to be saved onto a PDA or PC.

The data file, which can be imported by programs such as Excel, contains the following data recorder information: Serial number, measuring range, sensor name, installation data, read-out data, units, measuring values with date and clock time,...

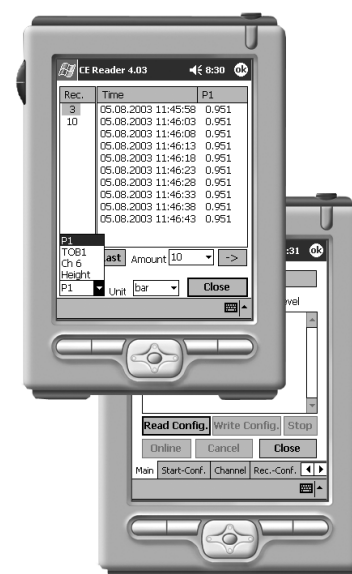
General functions:

- Status-indication
- Reading of the recordings' directory with starting time and storage size in %
- Read-out of the individual recordings
- Graphical display of the data
- Conversion of the data into a text file for Excel import
- Miscellaneous calculations possible

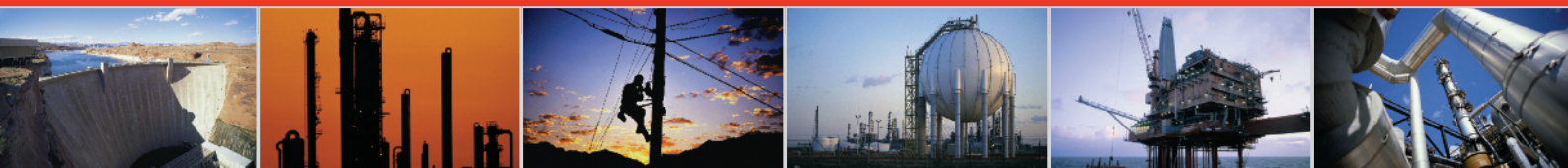
Special calculations or an export of the data into customer specific databases are possible (only on request).



Logger 4.x also includes the WindowsCE-software for PDA's.



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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

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We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

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We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

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Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

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All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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*subject to availability and conditions

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