

# Data logger *PEWALog*

## Robust multi-talent with LCD screen



The compact data logger *PEWALog* with four analogue inputs and an easy to read LDC screen offers a maximum possible flexibility and user-friendliness.



The measuring tasks undertaken by the user define the way in which the *PEWALog* is configured. There is a choice of the *PEWALog-4A* with four 4...20mA, the *PEWALog-3V* with four 0...3VDC, and the *PEWALog-5V* with four 0...5VDC analogue inputs. All these data loggers have an absolute pressure inside. You can choose of the pressure sensor a humidity, temperature, light or a 3-axis acceleration sensor as well. The 3-axis acceleration sensor allows the peak value to be recorded once a second whilst making measurements of up to 1600 values per second per axis. The analogue inputs include an alarm output, multiple output switching power supply (only -3V) and an input for starting and stopping data recording



The memory capacity of the *PEWALog* is over 2 million measurement parameters. The 4-row backlight LCD display has four individually configurable views. All acquired data can be quickly transferred to a PC or laptop via the USB interface.

### Technical data for the *PEWALog*

<b>Housing:</b>	Anodised aluminium industrial case (Standard IP60 optional IP67), top-hat rail snapper (TS35)
<b>Dimensions:</b>	78 x 62 x 38mm
<b>Weight:</b>	222g
<b>Memory capacity:</b>	over 2'000'000 measurement parameters
<b>Operation:</b>	two keys for selecting functions and controlling data recording
<b>Display:</b>	four row LCD matrix display
<b>LED:</b>	3 colour LED to indicate data recording, alarm and charge condition
<b>Analogue outputs:</b>	<i>PEWALog-4A</i> : 4...20mA <i>PEWALog-3V</i> : 0...3VDC <i>PEWALog-5V</i> : 0...5VDC
<b>Integrated sensors:</b>	absolute pressure*, temperature, relative humidity, light and 3-axis acceleration/position *Standard
<b>Measurement rate (MR):</b>	1/s to every 12h, 12bit
<b>Storage rate (SR):</b>	1/s to every 12h
<b>Supply Voltage</b>	via power supply 100...250VAC/50...60Hz
<b>PC-software:</b>	free Setup-, Reader-, Viewer- & Online software ( Windows 98 / ME / 2000 / XP / Vista / 7 )
<b>Interface:</b>	USB (Mini-B)
<b>Operating conditions:</b>	Temperature -20...+65°C
<b>Storage conditions:</b>	Temperature +5...+45°C 10...95% relative humidity, non-condensing
<b>Standards</b>	complies with EU-Directives RoHS/WEEE



## Measurement parameters for the sensors (internal and external)

<b>PEWALog with 4 analogue inputs</b>	<b>Technical data</b>
Including an alarm output, multiple output switching power supply (only -3V), and an input for starting and stopping data recording.	4 analogue inputs, 0...3 / 5VDC or 4...20mA, 12 Bit Measurement/storage rate: 1/s to every 12h

Depending on the power consumption of the external sensor, the *PEWALog-3V* can be powered by the logger, if required. The power can be turned on automatically before measurements take place with a pre-settable lead time. This allows any necessary warm-up periods for the sensors to be taken into consideration.

Instead of the absolute pressure sensor you could choose the data logger *PEWALog* with another sensor inside as well.

<b>Measurement parameters</b>	<b>Measurement range</b>	<b>Accuracy</b>	<b>Measurement / storage rate</b>
<b>Temperature</b>	0...65°C	±2°C (-55°C...+125°C)	1/s to every 12h
<b>Relative Humidity</b> with integrated temperature	0...100% rel. humidity -20...+65°C	±2% rel. humidity (10...85% rel. humidity, 0...40°C)  ±4% rel. humidity (85...95% rel. humidity, 0...40°C)  ±0,5°C (0...65 °C)	1/s to every 12h
<b>Air pressure</b> absolute, with integrated temperature	0...2000mbar absolute -20...+65°C	±2,5mbar (750...1100mbar abs., +25°C)  ±0,5°C (0...65°C)	1/s to every 12h
	<b>STANDARD</b> Optional: 0...14bar absolute -20...+65°C	±50mbar (1...10bar abs., +25°C)  ±0,5°C (0...65°C)	1/s to every 12h
<b>3-axis-accelerometer</b> (peak value detection/fast peak)	±15g	±0,15g (+25°C)	MR: 1600/s SR: 1/s to every 12h
<b>Light</b>	0...65'000lx	max. sensitivity at 500nm	1/s to every 12h

Of course you can also purchase the *PEWALog* completely equipped with with the above sensor, but that eliminate all analogue ports for external sensors. If required we can also supply the above sensors, except the acceleration sensor, to be attached to the *PEWALog* externally. The cable lengths available are 0,15, 0,4, 1,0 or 1,6m.



Pressure sensor



Light sensor



Temperature sensor



Humidity sensor

The flexibility makes the Data logger *PEWALog* ideally suited for most diverse documentation and monitoring in food, industrial and science etc..