

## Sensor- Display- Logger- Unit

**Type GM-80**

- Mains / battery / accumulator operation
- Trigger input for external controlling
- Fast measurement up to 1000/sec
- Current loop input 0/4 - 20 mA
- Data logger for 1000 values
- Display of the physical unit
- 10 Sensor parameter sets
- RTC for time and date
- Active or SG sensors
- Min., - max. memory
- RS - 232 interface



### DESCRIPTION:

The GM 80 is mobilely applicable by battery or accumulator operation, but can also be supplied with an external power pack.

A high measuring accuracy combined with fast measuring rate is ensured by the employment of highly precise amplifiers and components, 16 bit A/D converter and a fast  $\mu$ -controller.

A versatile configurable data logger can store up to 1000 measured values with time and date.

Measured values or logging values can be expelled by the RS-232 interface to a computer or a printer.

10 parameter sets are available for sensors. Therein in each case the calibration data, the sensor designation and physical unit are deposited.

Functions such as tare, call up min/max, and delete min/max are available during the measurement.

By an additional optical isolated trigger input, the data logger or the interface can be controlled externally.

A battery management switches GM80 off after 10 min., in the logging operation however only after logging end. In addition the SG- supply at slow measuring rates is clocked current-saving.

### TECHNICAL DATA:

Type		GM-80
Art. no.		106781
Measuring accuracy	f.s.%	0,1 $\pm$ 1 digits
Meas. rate adjustable	/sec	1 / 10 / 100 / 1000
Display rate	/sec	3
Display scope		$\pm$ 9999 + 3 digits for unit
Zero point adjustment		automatic / by hand
Sensor parameter sets		10
Logger mode		Window, diag., hand, auto
Memory values		Max. 1000
Bridge resistance of the SG	$\Omega$	350 – 2000
Input sensitivity passive	mV/V	0,35 – 3,3
Input sensitivity active	V	0 - $\pm$ 1 V - 0 - $\pm$ 5 V
Input sensitivity current	mA	0/4 – 20 on 75 $\Omega$ shunt
Sensor connection		2 or 3 wire
Excitation voltage sensor		5,00V 20mA / 12V 100mA
Operation time at 50% ED with accu (4 x Mignon 1600mAh)	h	>20
	h	>30
Nominal temperature range	$^{\circ}$ C	+15...+35
Service temperature range	$^{\circ}$ C	+5... +45
Storage temperature range	$^{\circ}$ C	-10... +70
Dimensions (LxWxH)	mm	200 x 100 x40
Weight	gr	500
Level of protection (DIN VDE 0470)		IP 40

Accessories	Art. no.	Function
E-GM80/AK	106782	Accu set: 4 x Mignon 1,2 V 1600mAh
E-GM80/NT	106864	Plug-in power supply for mains operation and accu charging
E-GM80/DR	106982	Printer, directly connectable to the GM 80 RS232
E-GM80/TR	106984	Trigger cable 3m free soldered ends
E-GM80/SCI	106985	RS 232 Interface cable to SUB-D 9-pin
E-GM80/KIT	106986	Complete set of mating plugs
E-GM80/NEUT	106983	Neutral design