

Universal handheld measuring device with Datalogger



Description

With this mobile device it is possible to measure and record precise measurements. A high measuring rate allows to use the device in very fast processes.

The measured values can also be transferred to a PC or printer via a serial interface or USB device.

The integrated sensor parameter store allows the display to handle up to 10 sensors. In practice this means that a service technician, for example, by simply plugging the sensor into a different slot and selecting the stored parameter set is able to change over to the next measuring point very quickly.

The integrated data logging functionality enables series of measurements to be recorded with a timestamp, for subsequent transfer to a PC for evaluation. The recording of measured values is started manually, time-controlled or by an external signal, as desired.

Various energy-saving modes allow an operating time of up to 30 hours in battery mode.

Theres is a built-in jack available for charging of the optionally available rechargeable battery.

Features

- Accuracy 0,1% ± 1 digit
- Measuring rate 1,000 measurements/sec.
- 10 sensor parameters
- Data logger up to 15,000 values
- Min–Max value store
- Tare button
- PC interface (RS 232, USB)
- Optional printer connection
- Units displayed freely selectable
- Simple 4-button operation

Applications

- Measurement and control devices
- Construction of apparatus
- Setting up machinery
- · Construction of devices and special machinery
- · Calibration service

Specific Information

Accessories:
 Cable, 3 metres (with jack plug <> free cord)
 for triggerinput, transporting suitcase

Model: E3907

Technical data

Model		E3907	Options
Output			
1	- Display	4½ digit LCD display plus 3-digit unit display	
	- Accuracy	0.1% of F.S. ± 1 digits	
	- Signal	USB, RS-232 port, 9600 115 k ² baud	
Input	-	·	
·	- Signal	±3,3mV/V; ±10V or 4 20 mA or 0 ±5 V	
		and tripper input	
	 Sensor supply 	5 VDC, max. 20 mA (at mV/V)	
		12 VDC, max. 100 mA (at mA or V)	
	 Limit frequency 	1 1000 Hz, adjustable	
Setting		Menu-driven via keyboard, optional	
		parameterizing software	
Power require	ment/operating time	with batteries, 4xMignon 1600 mAh: >20 h	
		with batteries: > 30 h	
Nominal temp		+15°C +35°C	
Service temperature range		5°C +45°C	
Storage temperature range		-10°C +70°C	
Protection type (acc. to EN 60 529/ IEC 529)		IP 40	
Electrical connection		Force transducer: SUB-D-15-socket;	
		RS-232: Jack socket;	
		Charger: Jack socket;	
		Trigger input: Jack socket	
Housing			
	- Material	Plastic	
	- Dimensions (W x H x D)	100 x 200 x 40 mm	
Weight		400 g	
A/D conversio	n	16 bit microcontroller	
Bridge resistance		≥ 350 Ω-2 kΩ	
Tare / Zero adjustment		Automatic, Manual	
Display rate		5 updates/sec.	
Display		LCD 4-digit + 3-digit unit	
	e for sensor parameters	10	
Data logging modes		Manual, Start-time, Digital input	
Data logging in	ntervals	1ms, 10ms; 100ms, 1s, 10s, 1min, 10min, 1 h	
Data logging s	storage	Max. 3,000 values internally,	
		unlimited via PC mass storage device	
Maximum valu	ue store	Min / Max	
Electrical conr	nection	15-pole plug	
Control function	on	100% signal	
Interface		RS 232C, USB	
Re-chargeable	e batteries	4x mignon 1.2V	
Plug-in mains		Mains operation, Battery charging	
Printer	1 **	On interface RS232 or USB	On request
Digital input le	ad	3m flexible lead	On request
Interface cable		SUB-D 9-pole, USB	On request
Carry case	-	202 2 0 poio, 002	On request
Jany Jase			On request

Ordering code		
Desing/Model	Order No.	
Base unit	EE3907X000001	
Base unit with RS232-interface cable	EE3907X000002	
Base unit with batteries and mains/ charger	EE3907X000003	
Base unit with USB-interface cable	EE3907X000008	
Base unit with RS232 interface cable, batteries and mains/ charger	EE3907X000005	
Base unit with USB interface cable, batteries and mains/ charger	EE3907X000009	