

# Product information

## Compact column measuring instrument Millimar S 1840 PE/M

### Product features

- When using pneumatic compact amplifiers, it is recommended at all times to use both a pressure regulator and a supply filter (see accessories)
- Clear, three color analog light bar display of warning and tolerance limits
- Backlit, two line LCD for displaying measured values, help texts and units of measurement
- 1 channel
- RS-232 interface
- Analog output
- 3 digital inputs for measurement start, master measurement, etc.
- 3 digital outputs for good, reject, rework classification, measuring time, etc.
- Dynamic measurements: Max, Min, Max-Min, Max+Min, Average
- Can either be programmed via the integrated membrane keypad using the menu driven interface or via the configuration software for MS Windows®
- 1-point or 2-point master measurement
- Password block in setup mode

### Package contains

instruction manual, power source



Item no.: 5318450

### Technical data

<b>Energy supply</b>	Power source, 230 V/115 V; 50/60 Hz
<b>Range of analog display <math>\mu\text{m}</math></b>	$\pm 3, \pm 10, \pm 30, \pm 100, \pm 300, \pm 1000, \pm 3000, \pm 10000$ , tolerance related
<b>Resolution <math>\mu\text{m}</math></b>	0,1
<b>Display</b>	101 LED elements, 3 color
<b>Digital display</b>	7 digit LCD, 7 segments
<b>Scale reading</b>	$\pm 10, 30, 100, 300, 1000, 3000, 10000 \mu\text{m}$
<b>Range and text display</b>	7 digit LCD, 14 segments, alphanumeric
<b>Tolerance display</b>	Via color change of the analog display
<b>Compatibility</b>	Mahr
<b>Measuring combination</b>	+A, -A
<b>Features</b>	1
<b>Programs</b>	1
<b>Test steps</b>	1
<b>Dynamic functions</b>	Max, Min, Max-Min, (Max+Min)/2, Average
<b>Configuration</b>	PC, keyboard
<b>Zero setter</b>	electrical
<b>Error limit</b>	0.5 - 1%
<b>Error limit, digital display</b>	+/- 1 place
<b>Error limit, analog display</b>	1% (101 LEDs)
<b>Data interface</b>	RS-232C, wireless
<b>Hardware interfaces</b>	RS-232C, I/O interface
<b>Control inputs</b>	3 optocoupler inputs, 24 V, 10 mA
<b>Control outputs</b>	3 optocoupler outputs, 24 V, 100 mA
<b>Analog output</b>	1 V/mm
<b>Power consumption max.</b>	20 VA
<b>IP protection category</b>	IP 43
<b>Relative humidity non-condensing</b>	80 %
<b>Operating temperature from</b>	0 °C
<b>Operating temperature up to</b>	45 °C
<b>Temperature coefficient</b>	0.005 $\mu\text{m}/^{\circ}\text{C}$
<b>Product weight</b>	1.60 kg
<b>Range of analog display inches</b>	$\pm .0001", \pm .0003", \pm .001", \pm .003", \pm .01", \pm .03", \pm .1", \pm .3"$ , tolerance related

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### Accessories

Order no.	Designation	Product type
7024634	Data connection cable RS232C	RS232C 0-modem cable
4102331	Adapter cable RS-232-USB	Millimar - USB