# 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

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

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### Accessories

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