

Millimar S 1840 PE

Column format air measuring systems



Assess and judge measuring results at a glance – nothing is easier than that with the Millimar S1840 column amplifier.

The Millimar S 1840 column amplifier offers a broad range of functions for combining the signals from both static and dynamic measurements.

Measuring results are indicated by way of 101 three-color LEDs. When the programmable warning and tolerance limits are exceeded, the LEDs change their color from green to yellow or red, accordingly – high visibility from any distance.

Features

Display

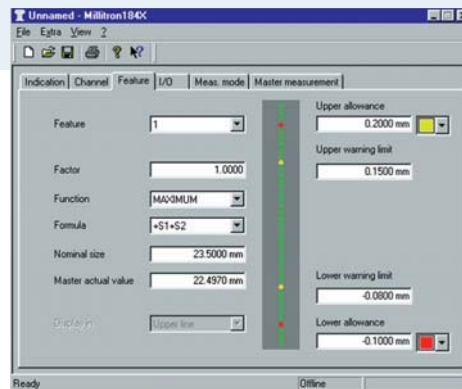
- Three-color illuminated bar graph with analog warning and tolerance limit display
- Two-line backlit LCD for indicating measured values, help texts, and measuring units
- Up to two characteristics can be displayed simultaneously.

Connections

- Single input.
- RS 232 interface.
- Analog output.
- Three digital inputs for measuring start, master measurement, etc.
- Three digital outputs for Accept – Reject – Rework classification, measuring time, etc.

Functions

- Static measurements: $\pm A$, $\pm B$, and all combinations.
- Dynamic measurements: Max, Min, Max-Min, Max+Min, mean.
- Windows® software for configuring the LED display The Millimar S 1840 column amplifier can be programmed either menu-guided via the integrated membrane keypad or with the provided MS Windows® configuration software.
- Single Master or Dual Master setup.
- Password lockout in Setup Mode.



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Technical Data

Air/electronic converter for Millimar S 1840 PE

| | | | |
|--|---|-----------------------|-----------------------|
| Measuring principle | differential pressure | | |
| Measuring value acquisition | piezo | | |
| Magnification | 2500:1 | 5000:1 | 10000:1 |
| Pneumatic measuring range in μm (in) | +/- 50 | +/-25 | +/-12.5 |
| Measuring error in μm (in) | (+/--.00196 | +/--.00098 | +/--.00049) |
| Signal noise in μm (μin) | ≤ 0.4 (15.748) | ≤ 0.2 (7.874) | ≤ 0.1 (3.937) |
| Setting time in sec. (1 m/3.3 ft hose) | ≤ 0.3 | ≤ 0.3 | ≤ 0.5 |
| Setting time in sec. (2 m/6.6 ft hose) | ≤ 0.5 | ≤ 0.5 | ≤ 0.7 |
| Operating temperature | 0 ... 40 °C (32 ... 104 °F) | | |
| Supply pressure | 2 bar +/- 5 % (> 4 bar before pressure reducer) | | |

| | |
|--------------------------|--|
| Air supply connection | PU hose, dia 8 x 1 (.315 x .0394 in) |
| Measuring air connection | PU hose, dia. 6 x 1 (.236 x .0394 in) |
| Zero setter (OFFSET) | electrical |
| Amplification (GAIN) | approx. 1-2 m ³ (1.308-2.616 cu.yd.) |
| Air consumption | |

| | | |
|------------------------|---|---|
| Millimar S1840PE/F | for 1 Air Gage 2500:1 without Regulator for 1 Air Gage 5000:1 without Regulator for 1 Air Gage 10000:1 without Regulator | 5330104* 5330105* 5330106* |
| Basefoot | With 1 Regulator for 1 1840PE Column Unit With 2 Regulators for 2 1840PE Column Units With 3 Regulators for 3 1840PE Column Units | 5330910 5330911 5330912 |
| Air Supply Adaptor Kit | Includes AFL-24 Filter and AHO-2 Hose | 2121236 |

* Base with Regulator required and sold separately. Air Supply Kit recommended.