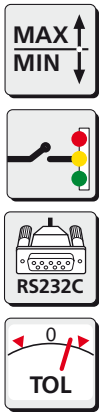


Millimar S 1840 PE Length measuring instrument with three-color illuminated bar graph (single or dual master system)



Features

Assess and judge measuring results at a glance – nothing is easier than that with the Millimar S 1840 column amplifier. For measurements with air measuring devices

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.

Display

- Easy to read 3-color illuminated bar graph with analog warning and tolerance limit display
- Backlit, two-line LCD for the display of measuring values, help tests and units of measurement
- 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

- 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.

- Supplied with:
Mains power supply plug

Configuration Software



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.



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Technical Data

Analog display	101 LED elements, 3-color	Computer, printer	RS232, 9 pin, male (PC compatible configuration)
Range and text display	7 character LCD, 14 segment, alphanumerical	Control inputs	3 opto-coupler outputs, 24 V, 10 mA
Measured value display	7-stellig LCD, 7 Segment	Control outputs	3 opto-coupler inputs, 24 V, 100 mA
Tolerance display	via color range of the analog display	Analog output voltage	1 V/mm
Display ranges	± 1, 10, 30, 100, 300, 1000, 3000, 10000 µm ± .0001; .0003; .001; .003; .01; .03; .1; .3 inch or tolerance related	Power supply	90 V bis 264 V, 47 Hz to 63 Hz
Error limits		Power consumption	20 VA
10 x analog display	1 % (101 LEDs)	Protection class	IP53 with conductive dust IP43
Digital display	± 1 digit	Housing dimensions (H x W x D)	ca. 487 x 47 x 144 mm ca. 19.17" x 1.85" x 5.67"
Temperature coefficient	± 0.005 %/°C	Weight	ca. 1.6 kg
Operating temp. range	0 °C to 45 °C		

Interfaces

Air/electronic converter for Millimar S 1840 PE

Measuring principle	differential pressure		
Measuring value acquisition	piezo		
Magnification	2500:1	5000:1	10000:1
Air measuring range in µm (inch)	± 50 (±00196")	± 25 (±00098")	± 12.5 (±00049")
Resolution	0.1 µm / .000005"		
Measuring error in µm (inch)	< 1 % of measuring range, better 0.5 %		
Signal noise in µm (inch)	≤ 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 (> 4 bar before regulator)	2 bar ± 5 %		
Air supply connection	PU hose, dia 8 x 1 (.315 x .0394")		
Measuring air connection	PU hose, dia. 6 x 1 (.236 x .0394")		
Zero setter (OFFSET)	electrical		
Amplification (GAIN)	electrical		
Air consumption	approx. 1-2 m ³ (1.308-2.616 cu.yd.)		

Order no.

Millimar S 1840 PE to connect air measuring devices			
		Tooling I.D.	Order no.
S 1840 PE/F	Low magnification for 1 air gage 2500:1 / 5000:1 without regulator	50/20	5318455*
S 1840 PE/F	High magnification for 1 air gage 10000:1 without regulator	10,5	5318457*

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

Accessories

	Order no.
Base foot With 1 Regulator for 1 1840 PE Column Unit	5330910
Base foot With 2 Regulators for 2 1840 PE Column Units	5330911
Base foot With 3 Regulators for 3 1840 PE Column Units	5330912
Connection cable (9 pin D-Sub jack to D-Sub jack), length 3 m	7024634
Control unit with 3 push buttons	5318430
Foot switch for Millimar	5330955
Configuration software D1000 S	7090375
Air Supply Adaptor Kit Includes AFL-24 Filter and AHO-2 Hose	2121236