

Millimar S 1840 Compact column amplifier



Features

- Easy to read 3 color analog display
- Measurement in conjunction with inductive probes (e.g. Mahr P2004) or electronic plug gages etc
- Two inputs for inductive probes (compatible with probes from Mahr, Mahr-Federal, Tesa)
- Extensive calculation of input signals: $\pm A$, $\pm B$ and all combinations
- Dynamic measurements: Max, Min, Max-Min, Max+Min, Mean
- Programmable either via the integrated keypad or the RS232 interface by means of MS-Windows configuration software
- Programmable warning and tolerance limits, exceeding the limit causes the color to change from green to yellow to red
- Background lit 2 lined LCD to display measured values, help text and measuring units
- Analog output
- 3 digital inputs (e.g. start of measurement, master measurement)
- 3 digital outputs for GO – NO GO – rework, measuring time
- Supplied with: D1000S Software, operating instructions and a mains power supply plug

Technical Data

Analog display	101 LED elements, 3 colors
Range and Text display	7 point LCD, 14 Segment, alphanumeric
Measured value display	7 point LCD, 7 Segments
Tolerance display	via color changes in the analog display
Display ranges	$\pm 10; 30; 100; 300; 1000; 3000; 10000 \mu\text{m}$ $\pm .0003; .001; .003; .01; .03; .1; .3 \text{ inch}$ or tolerance related
Measuring range of inductive probe	4000 (+/- 2000) μm , resolution 0.1 μm (Digital display)
Resolution	0.1 μm / .000005"
Response time	
- Meas. value memory	0.008 s
- Analog display	0.020 s
- Outputs	0.020 s

Error limits	
- 10 x Analog display	1% (101 LEDs)
- Digital display	0.3% (min. 0.2 μm)
Temperature coefficient	$\pm 0.005\% / ^\circ\text{C}$
Operating temp. range	0 ... 45 $^\circ\text{C}$ / 32 $^\circ\text{F}$... 113 $^\circ\text{F}$

Interfaces	
Computer, printer	RS232, 9 pin. male (PC-compatible layout)
- Control outputs	3 Optocoupler Outputs, 24 V, 100 mA
- Control inputs	3 Optocoupler Inputs, 24 V, 10 mA
Analog output	Voltage 1V/mm
Power supply	90 ... 264 V, 47 ... 63 Hz
Power consumption	20 VA
Protection class	IP53
	IP43 with conductive dust
Dimensions (H x W x D)	ca. 487 x 47 x 144 mm (19.173" x 1.850" x 5.669")
Weight	ca. 1.6 kg / 3.53 lbs

Order no.

		Order no.
S 1840 M	Mahr compatible	5318400
S 1840 F	Mahr-Federal compatible	5318402

For appropriate Inductive probes please refer to pages 7-6 to 7-18

Accessories

	Order no.
Base Plate , for up to 3 columns	5330901
Wall Mounting	5330902
Connection Cable (9 pin D-Sub-jack to D-Sub-jack), length 3 m / 10 ft	7024634
Control Unit with 3 push buttons	5318430
Foot Switch for Millimar	5330955
Input 1	5330956
Input 2	5330957
Input 3	7032401
Adapter non wired for I/O port	