

Product information

Compact column amplifier Millimar S 1840 F

Product features

- Easy-to-read 3-color analog display
- Measurement in conjunction with inductive probes (e. g. Mahr P2004) or electronic plug gages, etc.
- 2 inputs for inductive probes (compatible with probes from Mahr, Federal)
- Extensive calculation of input signals - $\pm A$, $\pm B$ and all combinations
- Dynamic measurements - Max, Min, Max-Min, Average
- Programmable either via the integrated keypad or the RS-232 interface by means of MS -Windows® configuration software
- Programmable warning and tolerance limits (exceeding the limit causes the color to change from yellow to red)
- Backlit, two-line LCD for displaying measured values, help texts and units of measurement
- 1 analog output
- 3 digital inputs (e.g. measurement start, master measurement)
- 3 digital outputs for good – reject – rework, measuring time

Package contains

instruction manual, power source



Item no.: 5318402

Technical data

Range of digital display μm	$\pm 2000, \pm 10000$
Range of analog display μm	$\pm 10, \pm 30, \pm 100, \pm 300, \pm 1000, \pm 3000, \pm 10000$, tolerance related
Resolution μm	0,01, 0,1
Display	101 LED elements, 3 colors
Scale reading	$\pm .0003; .001; .003; .01; .03; .1; .3$ inch
Range and text display	7-point LCD, 14 segment, alphanumeric
Digital display	7 point LCD, 7 segment
Range of analog display inches	$\pm .0003", \pm .001", \pm .003", \pm .01", \pm .03", \pm .1", \pm .3"$, tolerance related
Tolerance display	via color changes in the analog display
Measuring range, inductive probe	$\pm 200, \pm 2000$
Probe inputs	2
Compatibility	Federal
Measuring combination	+A, -A, +B, -B, A+B, +A-B, -A+B, -A-B
Features	2
Programs	2
Test steps	1
Dynamic functions	Max, Min, Max-Min, $(\text{Max}+\text{Min})/2$, Mean
Configuration	PC, keyboard
Response time digital display	0.3
Response time analog display	0.02
Response time control outputs	0.02
Response time analog output	0.02
Response time measuring value memory	0.008
Data transmission rate	40
Error limit, digital display	0,3% (min. 0,2 μm)
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	max. +/- 5V, Empfindlichkeit einstellbar
Energy supply	Power source, 230 V/115 V; 50/60 Hz
Power consumption max.	12 VA
IP protection category	IP 42

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Relative humidity non-condensing	80
Working temperature MIN	0
Working temperature MAX	45
Operating temperature from	0
Operating temperature up to	40
Temperature coefficient	0.005 %/°C
Product weight	1.60

Accessories

Order no.	Designation	Product type
7024634	Data connection cable RS232C	
4102331	Adapter cable RS-232-USB	Millimar - USB
4102233	Transmitter	RS-232 e
4102230	Receiver	e-Stick