Height Measuring Instrument Digimar 816 CL

Basic measuring functions

- Top or bottom contacting
- Web width or distances between grooves, including center of web or groove
- Bore or shaft diameter, including center of bore or shaft
- Bore reversing point (up or down)
- Shaft reversing point (up or down)
- Calculating distances or symmetry
- Dynamic measuring functions
- Measuring program
- Measuring data processing
- Easy to read background lit graphic LCD-Display
- Large and clearly defined function keys
- Operator guidance with self-explanatory icons / pictograms
- Possible to set additional zero points on a work piece
- Memory can store up to 99 measured values
- MarConnect Data output, select either:
  - USB
  - OPTO RS232C
- Excellent accuracy and reliabilty due to the optical incremental measurement system with the double reader head
- Dynamic probing system enabling high repeatability
- Air bearings system for light and smooth movement
- Precise measuring head on stainlees steel guideways
- Motorised measuring carriage simplifies measurement runs
- Temperature compensation with an integrated temperature sensor
- Probe constant remains after the instrument is switched off
- Integrated rechargeable battery with a long operating time span for mains independent measurement
- **Software:** MarCom Professional free download: **www.mahr.com/marcom** (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Scope of delivery:** Height Measuring Instrument incl. Operating and display unit, Carrier 817h1, Probe K6/51, Setting block 817 eb, Instruction manual, Power source, Protection cover, Calibration certificate

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Technical Data

Order no.		4429030	4429031
Product type		816 CL	
Measuring range	mm	0 – 350	0 – 600
Measuring range	inch	0 – 14"	0 – 24"
Application range from	mm	170	
Application range to	mm	520	770
Resolution	mm	0,01, 0,001	
Resolution	inch	.00005", .0001"	
Error limit	µm	(2.8+L/300) L in mm	
Repeatability bores	µm	3	
Repeatability plane	µm	2	
Perpendicularity error	µm	15	20
Operation time max.	h	10	
Measuring force	N	1.0 +/–0.2 N	
Relative humidity non-condensing	%	65	
Working temperature	°C / °F	20 / 68	
Operating temperature	°C / °F	10 – 40 / 50–104	
Product weight	kg / lbs	25.00 / 55.15	30.00 / 66.14
Data interface		Opto RS232C, USB, Wireless	
Standard		Factory standard	

Accessories

Order no.	Product description	Product type
4346023	Data connection cable USB (2 m)	2000 usb
4346020	Data Connection Cable RS232C (2 m)	2000 r
4102232	Transmitter for e-Stick	2000 e
4102230	Receiver	e-Stick
4221526	Surface Plate made from granite, 1200 x 800 mm	107 G
4221574	Stand, 1200 x 800 mm	107 Ug
4221525	Surface Plate made from granite, 1000 x 630 mm	107 G
4221573	Stand, 1000 x 630 mm	107 Ug

e-Stick

107 Ug