Digimar 817 CLM

Height Measuring Instrument

FEATURES

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
- Perpendicularity measurement
- Straightness measurement
- Measurement in 2D mode
- Measuring programs
- Statistical evaluation
- Measuring data processing
- Large and clearly defined function keys
- Easy to read background lit graphic LCD display
- Operator guidance with self-explanatory icons / pictograms
- Operator prompts and menus are available in several languages
- Possible to set additional zero points on a work piece
- Additional measurement instruments with Opto RS232 interface can be connected
- Secure the future due to software update potential
- Automatic Stand-by switch mode
- Selectable Auto-off function, without loss of measured values
- 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 stainless steel guideways
- Motorized measuring carriage simplifies measurement runs
- Probe constant remains after the instrument is switched off
- Integrated rechargeable battery with a long operating time span for power source independent measurement
- Temperature compensation with an integrated temperature sensor
- **Software:** MarCom Professional free download:
  www.mahr.com/marcom
  (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Package contains:** height measuring instrument including operating and display unit, carrier 817h1, probe K6/51, setting block 817 eb, instruction manual, power source, USB cable, protection cover, calibration certificate

TECHNICAL DATA

Order no.		4429010	4429011	4429012
Product type			817 CLM	
Measuring range	mm	0 –350	0 –600	0 –1000
Measuring range	inch	0 –14"	0 –24"	0 –40"
Application range from	mm		170	
Application range up to	mm	520	770	1170
Resolution	mm		0.01, 0.005, 0.001, 0.0005, 0.0001	
Resolution	inch		.001", .0005", .0001", .00005", .00001"	
Error limit	µm		(1.8+L/600) L in mm	
Repeatability bores	µm		1	
Repeatability planes	µm		0.5	
Perpendicularity error in µm	µm	5	6	10
Operating time max.	h		10	
Measuring force	N		1.0 +/–0.2 N	
Relative humidity non-condensing	%		65	
Working temperature	°C		20	
Operating temperature	°C		10 –40	
Product weight	kg	25.00	30.00	35.00
Data interface			USB, RS232C, Wireless	
Standard			Factory standard	

ACCESSORIES

Order no.	Product name	Product type
7024634	Data connection cable RS232C (3 m)	
4102333	817 USB Adapter cable RS232-USB (0.2 m)	817 USB
4102233	Transmitter for e-Stick	RS232 e
4102230	Receiver	e-Stick
4221525	Surface plate made from granite, 1000 x 630 mm	107 G
4221573	Stand, 1000 x 630 mm	107 Ug
4221526	Surface plate made from granite, 1200 x 800 mm	107 G
4221574	Stand, 1200 x 800 mm	107 Ug

RS232 e;
RS232 f;
817 f

e-Stick

107 Ug