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I Digimar. Height Measuring Instruments

# Digimar 816 CL

► I The new Height Measuring Instrument **Digimar** 816 CL.

You want to obtain highly accurate measurement results without any complicated procedures? With the Digimar 816 CL you have the perfect partner for simple and accurate measurements both in the workshop or on the production line, just as you expect from Mahr! I

User-friendly operation		Versatile
<text><list-item></list-item></text>	Bigimar 816 CL	The Height Measuring Instrument Digimar 816 CL offers numerous practical measuring and evaluation functions: • Convenient standard measuring functions • Dynamic measuring functions • Roundness deviation • Wide range of options for data evaluation • Wide range of options for data evaluation
<section-header>Precise measuring results on the production line . Robust design . Measuring results independent of the user . Reliable results even outside of the inspection room <p< th=""><th></th><th><text><text><text><image/><image/><list-item><list-item></list-item></list-item></text></text></text></th></p<></section-header>		<text><text><text><image/><image/><list-item><list-item></list-item></list-item></text></text></text>

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### Height Measuring Instrument Digimar 816 CL



### **Features**

#### **Measuring system**

- Excellent accuracy and reliability 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
- Temperature compensation with an integrated temperature sensor
- Probe constant remains after the instrument is switched off
- Integrated rechargeable battery with a long operating time for mains independent measurement

#### Operating and display unit

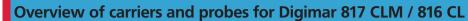
- Easy to read background lit graphic LCD-Display
- Large and clearly defined function keys
- Operator guidance with self-explanatory icons / pictograms
- Possible to set additional zero points on a work piece
- Memory can store up to 99 measured values
- MarConnect data output, select either:
- USB
- OPTO RS232C

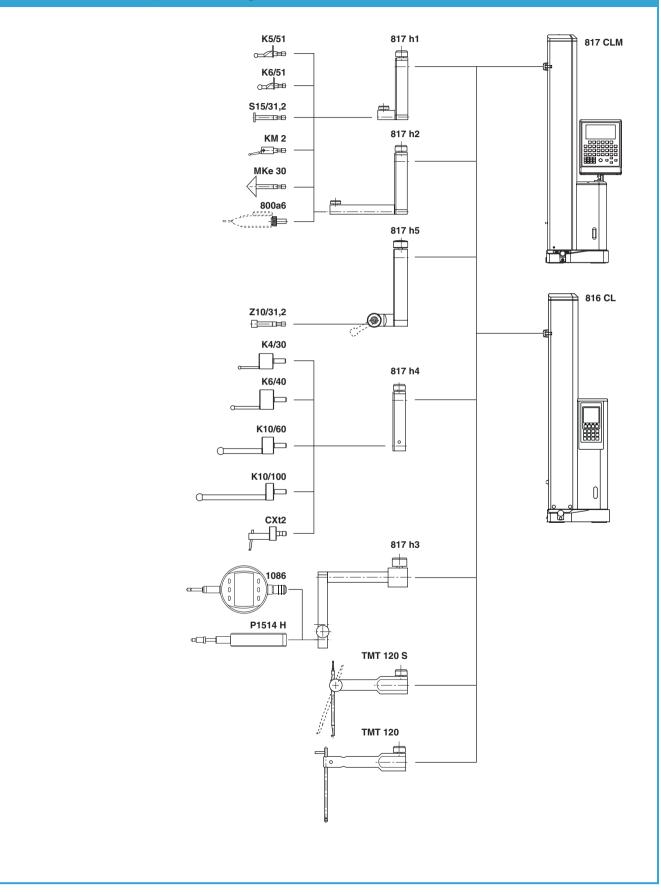
 Supplied with: Height Measuring Instrument incl. operating and display unit, Carrier 817h1, Probe K6/51, Setting block 817 eb, Operating instructions, Mains power adapter

#### **Technical Data**

Measuring range	mm / inch	350 / 14"	600 / 24"
Range of application Resolution Measuring error* Repeatability Perpendicularity error (mech.) Operating time of rechargeable battery Measuring force Permissible relative air humidity Working temperature Operating temperature 3-point air cushion, height	mm / inch mm (inch) μm μm h N °C / °F °C / °F °C / °F μm	(2.8+L/30) 2 (plane) frontal ≤15 up t 1.0 : 65 (non c 20 ±1 / 10 40 / ca	770 / $30.31"$ 0001" / .00005") 0), L in mm ) 3 (bore) frontal $\leq 20$ to 14 $\pm 0.2$ ondensed) 68 $\pm 33.8$ 50 104 a. 9
Measuring system Total height Base area (L x W) Weight Order no.	mm / inch mm / inch kg / lbs	741 / 29.17"	with optical reading 985 / 38.78" 9.45" x 9.84" 30 / 66.14 <b>4429031</b>
* 20°C with surface base plate according to DIN 6	876/0 and standard probe K6/	/51	

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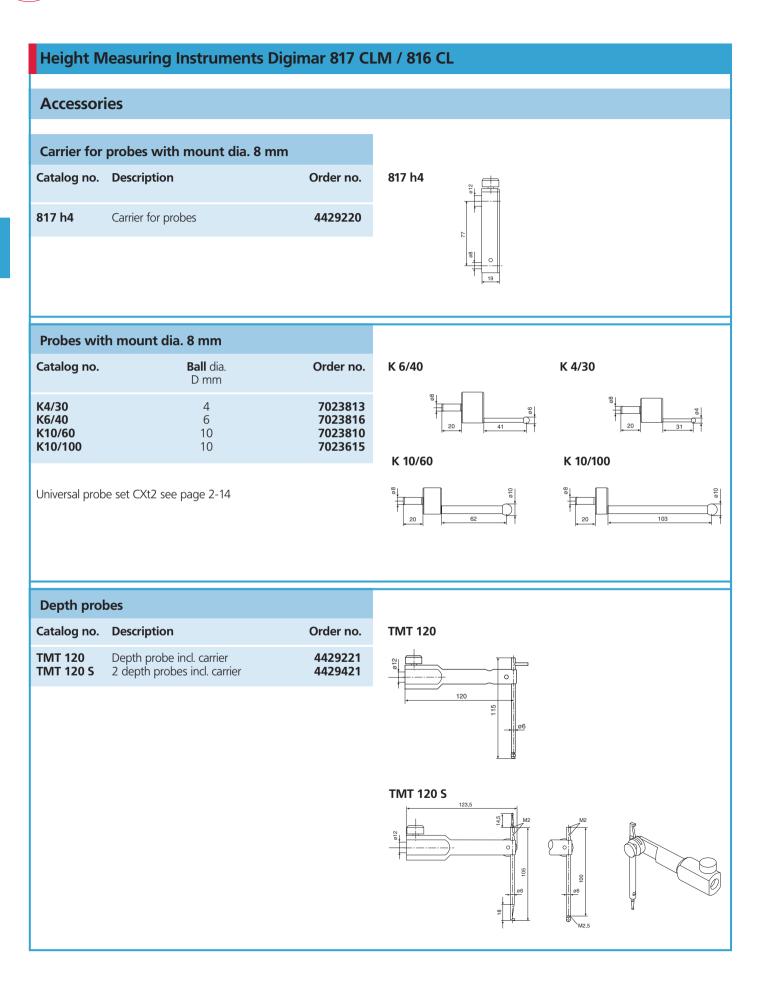
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# Height Measuring Instruments Digimar 817 CLM / 816 CL

## Accessories

atalog no.	Description	Shaft length mm	Order no.	817 h1 ₅↓ F			817 h2
17 h1	Carrier for a probe	27.5	4429154*				
817 h2	Carrier for a probe	100	4429219	84		8	C
317 h5	Carrier with a joint for a probe	35	4429454	<u>+</u>	27,5 46,5		100,5
				8			
	h mount dia. 6 m Description	m	Order no.	K 5/51	· · · · · · · · · · · · · · · · · · ·	K 6/51	
Catalog no. <5/51 <6/51 515/31,2	Description Spherical probe Spherical probe Disc probe	m	4429158 4429254* 4429226	K 5/51	· · · · · · · · · · · · · · · · · · ·	K 6/51	<sup>6</sup> 1 177, 242, 6
<b>Probes wit</b> Catalog no. K5/51 K6/51 S15/31,2 Z10/31,2 MKe 30 KM 2	Description Spherical probe Spherical probe		4429158 4429254*	K 5/51 S 15/31,2		K 6/51 MKe 30	
Catalog no. (5/51 (6/51 515/31,2 210/31,2 VIKe 30 KM 2	Description Spherical probe Spherical probe Disc probe Cylindrical probe Taper probe Probe M2 incl. styli 8	00 ts	4429158 4429254* 4429226 4429227 4429228	S 15/31,2			18,8 25,2
Catalog no. (5/51 (6/51 515/31,2 210/31,2 VIKe 30 KM 2 300 a6	Description Spherical probe Spherical probe Disc probe Cylindrical probe Taper probe Probe M2 incl. styli 8 dia. 2 mm Mounting shaft 800	00 ts	4429158 4429254* 4429226 4429227 4429228 4429256				18,8 25,2
Catalog no. K5/51 K6/51 S15/31,2 Z10/31,2 MKe 30 KM 2 800 a6	Description Spherical probe Spherical probe Disc probe Cylindrical probe Taper probe Probe M2 incl. styli 8 dia. 2 mm Mounting shaft 800 for MarTest	00 ts	4429158 4429254* 4429226 4429227 4429228 4429256	S 15/31,2			18,8 25,2

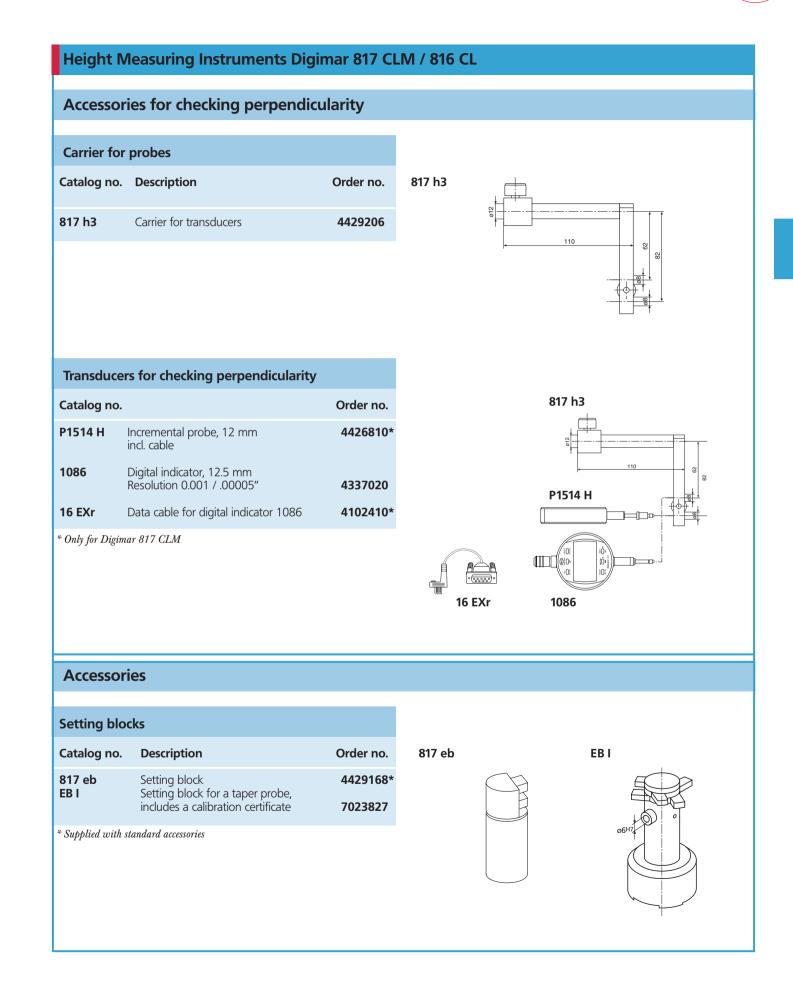
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# Height Measuring Instruments Digimar 817 CLM / 816 CL

# Accessory sets for probes

Probe set	817 ts1 consists of:	4429019
817 h2 S15/31,2 Z10/31,2 MKe 30 TMT 120 KM 2	Carrying case for accessories Carrier for probes Disc probe Cylindrical probe Taper probe Depth probe incl. carrier Probe for MarTest styli M2	4429020 4429219 4429226 4429227 4429228 4429221 4429256
817 h4 K4/30 K6/40 K10/60 K10/100	Carrier for probes Spherical probe Spherical probe Spherical probe Spherical probe	4429220 7023813 7023816 7023810 7023810 7023615



817 ts1

Probe set	817 ts2 consists of:	4429018
817 h2 S15/31,2 Z10/31,2 MKe 30 TMT 120 KM 2	Carrying case for accessories Carrier for probes Disc probe Cylindrical probe Taper probe Depth probe incl. carrier Probe for MarTest styli M2	4429020 4429219 4429226 4429227 4429228 4429221 4429256



817 ts2

Universal probe set CXt2 consists of:	7034000	Probe carrier
$\begin{array}{llllllllllllllllllllllllllllllllllll$	3015925           3015917           haft length           l= 78 mm           l= 75 mm           3015918           s= 15.5 mm	
Taper probedia. $d = 0-7.5 \text{ mm}$ Spherical probeTC dia. $dk = 3 \text{ mm}$ Spherical probeTC dia. $dk = 2 \text{ mm}$ Spherical probeTC dia. $dk = 1 \text{ mm}$ Extension M3 - M3 $d = 4 \text{ mm}$ Extension M3 - M2.5 $d = 4 \text{ mm}$	3015920         l= 24 mm       3022000         l= 24 mm       3022001         l= 24 mm       3022002         l= 20 mm       3015921         l= 20 mm       3015888	Measuring crook



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