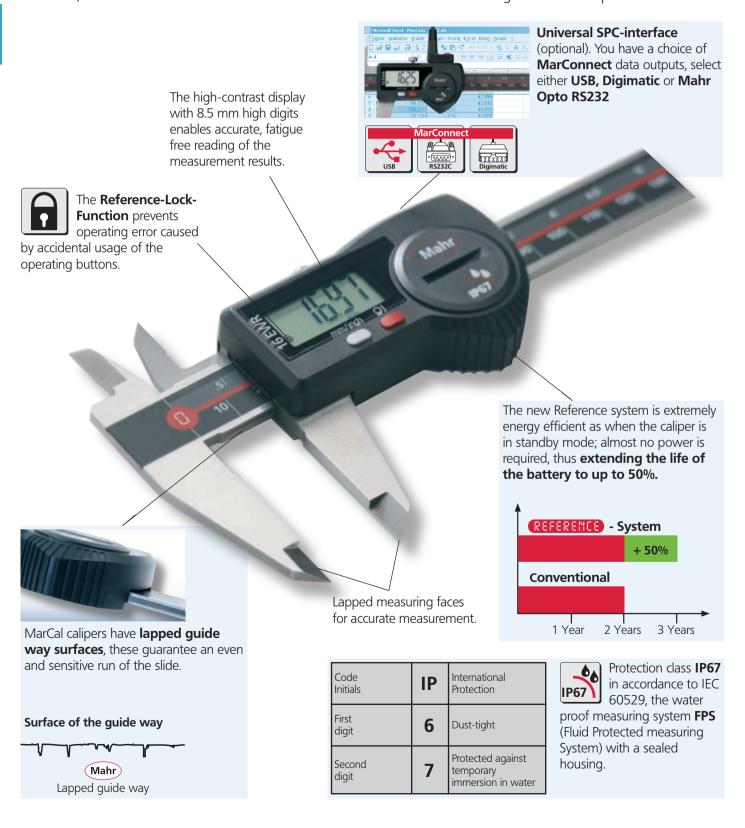
Mahr 1

MarCal. The new Generation with the Reference-System **WATERPROOF CALIPERS**

► I The water-proof digital caliper **MarCal** 16 EWR, with protection class IP67 and the Reference Lock-Function, ensures both accurate and reliable results even in the most toughest workshop conditions.





Digital Caliper MarCal 16 EWR with data output



Features

Functions:

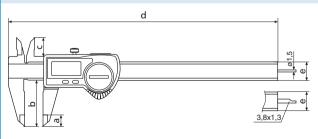
ON/OFF RESET (Set display to zero) mm/inch Reference-Lock/Unlock DATA (Data transmission via connection cable) Auto-ON/OFF

- Immediate measurement due to the Reference system
- Excellent resistance against dust, coolants and lubricants, protection class IP67
- MarConnect data output, choose alternatively: USB, OPTO RS232C or Digimatic
- Dirt wipers are integrated in the slide
- Life of the battery up to 3 years
- Max measuring speed 2.5 m/s (100"/s)
- High contrast LCD with 8.5 mm high digits
- Lapped guide way
- Slide and beam made of hardened stainless steel
- Measuring blades for inside measurement
- Step measuring function
- Locking screw
- Supplied with: Case, battery, operating instructions

Order no.

Technical Data

Measu range mm	ring (inch)	Resolution mm / inch	Error limit	DIN 862	Depth rod	Friction wheel	Order no.
150 150 200 300 150 150 200 300	(6") (6") (8") (12") (6") (6") (8") (12")	0.01/.0005" 0.01/.0005" 0.01/.0005" 0.01/.0005" 0.01/.0005" 0.01/.0005" 0.01/.0005"	0.03/ .001" 0.03/ .001" 0.03/ .001" 0.04/ .0015" 0.03/ .001" 0.03/ .001" 0.03/ .001"	•		•	4103064 4103066 4103068 4103070 4103065 4103067 4103069 4103071



Dimensions						
mm	а	b	С	d	е	
150 200 300	10 10 14	40 50 64	16 19 19	235 285 388	16 x 3 16 x 3.5 16 x 4	

Accessories

		Oraci iio.
Depth Measuring Bridge	16 Em	4102020
Battery 3V, Type CR 2032		4102520
Data Connection Cable USB (2 m)	16 EXu	4102357
Data Connection Cable Opto RS232C		
(2 m), with SUB-D jack 9-pin	16 EXr	4102410
Data Connection Cable Digimatic (2 m),		
Flat plug 10-pin	16 EXd	4102411
1 3 1		

Accessories for Data Processing see Chapter 11

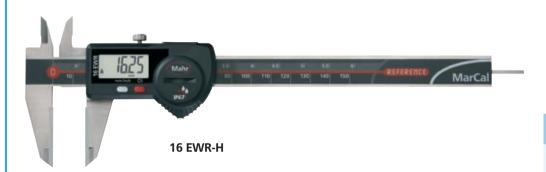


Digital Caliper MarCal 16 EWR special design





Digires**

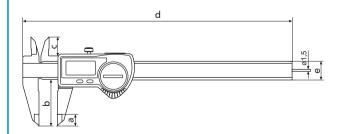


Features

Features are the same as the MarCal 16 EWR, please refer to Page 1-6, additional features can be found in the Technical Data.

Technical Data

		suring nge	Resolution	Error limit <i>G</i>	Depth rod	Order no.	Туре
	mm	(inch)	mm / inch	mm	<u></u>		
16 EWR-C	150	(6")	0.01/ .0005"	0.03	•	4103072	Ceramic outside measuring faces
16 EWR-H	150	(6")	0.01/ .0005"	0.03	•	4103073	Carbide outside measuring faces



Dimens	sions				
mm	а	b	С	d	е
150	10	40	16	235	16 x 3

Accessories

Battery, Data Connection Cables see Page 1 - 6

Accessories for Data Processing see Chapter 11



MarCal - The innovative Reference-System

Just set once to zero

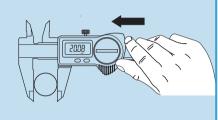
All Mahr digital calipers with this logo **REFERENCE** are equipped with the innovative Reference-System. The zero position just has to be set once: after setting the zero position, the zero remains stored for all further measurements. Therefore, once the caliper is switched ON or the slide is moved the caliper is immediately ready for measurement. The need to reset to zero with a conventional caliper once the caliper is switched on has now become obsolete.

Conventional

- ① Switch ON
- ② Close the measuring jaws
- 3 Set to zero
- Results of measurement







REFERENCE - System

① Switch ON

② Results of measurement



REFERENCE



Press the ON key

or move the slide

IP-Protection classes

First digit is the degree of protection according to IEC 60529			Second digit is the degree of protection according to IEC 60529 (approximate)		
Protection against particles, contaminants and dust			Protection against wet conditions (fluids)		
0	Not protected	0	Not protected		
1	Particles > 50.0 mm	1	Falling water drops - vertical		
2	Particles > 12.5 mm	2 Falling water drops - tilted < 15°			
3	Particles > 2.5 mm	3 Spray water < 60°			
4	Particles > 1.0 mm	4 Water splashing from all directions			
5	Dust protected	5	Water jets from all directions		
6	Dust tight	6	Powerful water jets		
		7	Temporary immersion in water		
		8	Continuous immersion in water		



Example:
IP67 means that
the product is
"Dust tight" and is
protected against
"Temporary
immersion in water".