MarCal. The new Generation

WATERPROOF DIGITAL CALIPERS WITH THE REFERENCE SYSTEM AND INTEGRATED WIRELESS
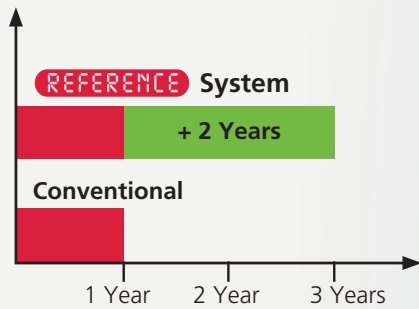
Security due to the Reference-Lock function

• Zero-position is secured
• Operating error is not possible

The digital caliper MarCal 16 EWRi Reference is equipped with a LOCK function. With this key lock, the zero position is secured and operating error is avoided.

Battery service life is 3 years

The new Reference System is extremely energy efficient because of its standby mode feature; almost no power is required, thus **extending the life of the battery up to 3 years*.**
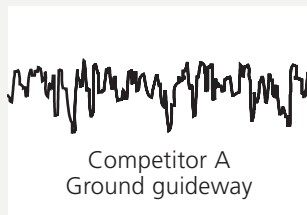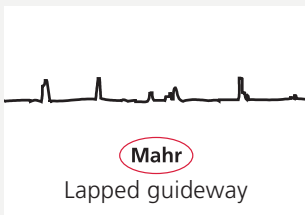
REFERENCE **System**

+ 2 Years

Conventional

1 Year   2 Year   3 Years

* When Integrated Wireless is deactivated

Superior quality of the guideways

Only MarCal calipers have lapped guideway surfaces, that guarantee an even and sensitive run of the slide. Additionally, the service life of the caliper increases, compared to a ground guideway due to the greater contact area on the guideway surface.

Surface of the guideway

Mahr
Lapped guideway

Competitor A
Ground guideway

Competitor B
Ground guideway

Mahr

MarCal. Caliper

MarConnect Integrated Wireless

MarConnect integrated wireless

Wireless data transmission for the price of a data cable. With Mahr's Integrated Wireless, users have a new Integrated Wireless data transmission system for the price of a data cable. Data acquisition with digital calipers is now even simpler: simply transmit your measured data directly into Microsoft Office Excel® or any Windows program with a keyboard code.

Secure data transmission

MarConnect integrated wireless

With Integrated Wireless, your data will be transferred to the digital indicator, which is confirmed with a message in the digital indicator's display The message will show whether the sent data has been transferred correctly, and/or whether you are in the reception range of the i-Stick.

Ergonomic Design

The handy non-slip thumb support of the MarCal 16 EWRi ensures, even in contaminated working conditions, trouble-free handling and therefore reliable measuring results.

Original size

11 mm

The high-contrast display with 11 mm sized digits enables accurate, fatigue-free reading of the measurement results.

Excellent resistance against dust, coolant and lubricants
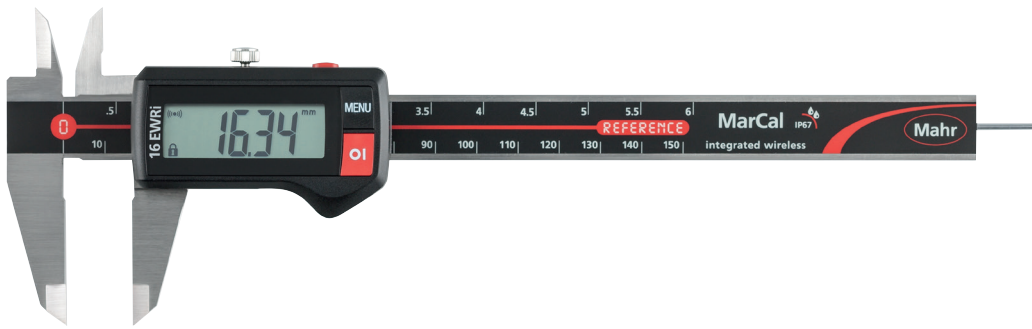
IP67

Due to the outstanding protection against dust and water, the digital caliper MarCal 16 EWRi Reference delivers precise and secure results, even in the most difficult workshop conditions. The finished plastic components have an outstanding chemical resistance.

Code Initials	IP	International Protection
First digit	6	Dust-tight
Second digit	7	Protected against temporary immersion in water

Digital Caliper MarCal 16 EWRi

IP67 | **DIN 862** | Ø1,5 | REFERENCE | MarConnect integrated wireless

Functions:
- ON/OFF
- AUTO-ON / OFF
- HOLD (storage of measured values)
- RESET (set display to zero)
- PRESET (for entering a numerical value)
- Reversal of counting direction
- mm/inch
- LOCK function (key lock)
- DATA (data transmission)

- High contrast analog display
- Locking screw above
- Lapped guideway
- Measuring blade for inside measurements
- Slide and beam made of hardened stainless steel
- Step measuring function
- Immediate measurements due to the Reference System
- Raised guideways for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- **Software:** MarCom Professional free download: **www.mahr.com/marcom** (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 11 mm
- **Data interface:** Integrated wireless
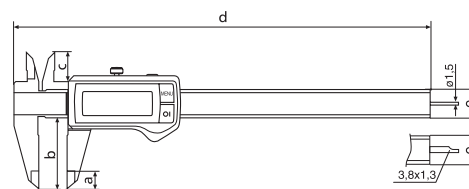- **Energy supply:** Battery life approx. 3 years (approx. 0,5 in wireless mode)
- **IP protection category:** IP 67
- **Scope of delivery:** Battery, Instruction manual, Case
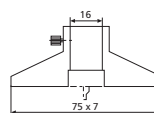
Technical Data

Order no.	Product type	Measuring range	Measuring range	Resolution	Error limit	Error limit	Standard	Depth Rod	Friction wheel
		mm	inch	mm/inch	mm	inch			
4103400	16 EWRi	0 – 150	0 – 6"	0,01 / .0005"	0,03	.001"	DIN 862	round	
4103401	16 EWRi	0 – 150	0 – 6"	0,01 / .0005"	0,03	.001"	DIN 862	round	•
4103402	16 EWRi	0 – 150	0 – 6"	0,01 / .0005"	0,03	.001"	DIN 862	rectangular	
4103403	16 EWRi	0 – 150	0 – 6"	0,01 / .0005"	0,03	.001"	DIN 862	rectangular	•
4103404	16 EWRi	0 – 200	0 – 8"	0,01 / .0005"	0,03	.001"	DIN 862	rectangular	
4103405	16 EWRi	0 – 200	0 – 8"	0,01 / .0005"	0,03	.001"	DIN 862	rectangular	•
4103406	16 EWRi	0 – 300	0 – 12"	0,01 /0005"	0,04	.0015"	Factory standard		
4103407	16 EWRi	0 – 300	0 – 12"	0,01 / .0005"	0,04	.0015"	Factory standard		•

Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4103400	10	40	16	235	16
4103401	10	40	16	235	16
4103402	10	40	16	235	16
4103403	10	40	16	235	16
4103404	10	50	19	285	16
4103405	10	50	19	285	16
4103406	14	64	19	388	16
4103407	14	64	19	388	16

Accessories

Order no.	Product description	Product type
4102020	Depth bridge (75 x 7 mm)	16 Em
4102220	Receiver	i-Stick
4102520	Battery 3 V, CR 2032	

16 Em

i-Stick