

MarCal | The New Generation

Waterproof Digital Calipers with the Reference System and Integrated Wireless

Reference Lock Protection

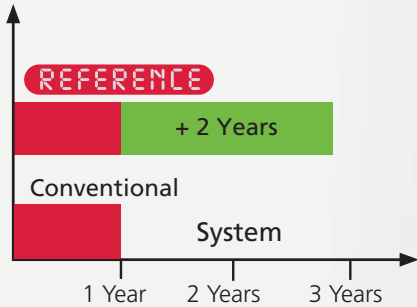
- Zero position is secured
- Operating error is not possible

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.



3 Year Battery Life

The new Reference System is just as energy efficient as when the caliper is in standby mode; almost no power is required, therefore extending the life of the battery up to 3 years*.



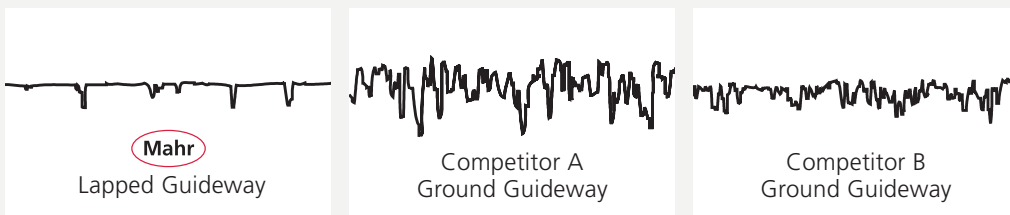
* When Integrated Wireless is deactivated

High Quality Guideways

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



Guideway Surface



MarConnect Integrated Wireless

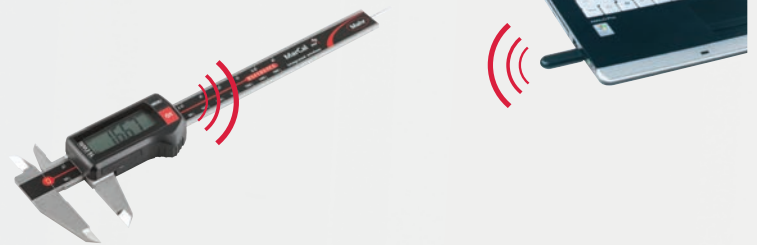


With Mahr's new Integrated Wireless, you receive an Integrated Wireless data transmission system for the price of a data cable. Data acquisition with digital calipers is now even simpler with the ability to transmit your measured data directly into Microsoft® Excel or via a keyboard code into any Windows program. Data transmission is now possible without the problems of being caught up between cables.

Secure Data Transmission



With Integrated Wireless, your data will be transferred to the PC and is confirmed with a message on the digital tool's display confirming the sent data has been transferred correctly and/or whether the tool is within reception range of the i-Stick.



Ergonomic Design

The nonslip thumb support of the MarCal16 EWRI ensures secure handling and reliable measuring results, even in contaminated working conditions.



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

Strong Resistance Against Dust, Coolant and Lubricants



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

Code Initials	IP	International Protection
First Digit	6	Dustproof
Second Digit	7	Protected Against Temporary Immersion in Water



Functions

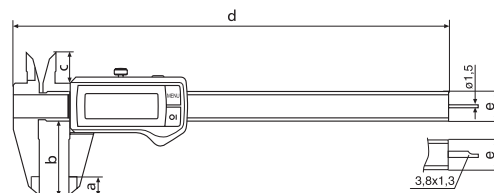
- ON/OFF
- AUTO-ON / OFF
- HOLD (storage of measured values)
- RESET (set display to zero)
- PRESET (for entering a numerical value)
- Reversal of counting direction
- mm/in
- LOCK function (key lock)
- DATA (data transmission)
- High contrast digital display
- Locking thumbscrew
- Lapped guideway
- 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 protection of the scale
- Strong resistance against dust, coolants and lubricants
- Dirt wipers integrated in the slide
- MarCom Professional Software 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 approximately 3 years (approximately 1/2 year in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** Battery, Instruction Manual, Case



Technical Data

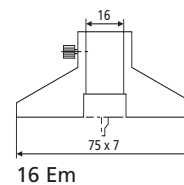
Order No.	Product Type	Measuring Range	Resolution	Error Limit	Standard	Depth Rod	Friction Wheel
4103400	16 EWRI	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Round	
4103401	16 EWRI	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Round	•
4103402	16 EWRI	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Rectangular	
4103403	16 EWRI	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Rectangular	•
4103404	16 EWRI	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Rectangular	
4103405	16 EWRI	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Rectangular	•
4103406	16 EWRI	0 - 300 mm / 0 - 12 in	0,01 mm / 0.0005 in	0,04 mm	Factory Standard		
4103407	16 EWRI	0 - 300 mm / 0 - 12 in	0,01 mm / 0.0005 in	0,04 mm	Factory Standard		•

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



Accessories

Order No.	Product Description	Product Type
4102020	Depth bridge (75 mm x 7 mm)	16 Em
4102220	Receiver including MarCom Standard Software	i-Stick
4102520	Battery 3 V, CR 2032	



i-Stick