



MarCal | Digital Calipers

## The Latest Generation of Calipers

Integrated Wireless

### Large Display

The high contrast display with 11 mm digits provides reliable, effortless measurement readings – even at a quick glance.

### Ergonomic Design

The handy thumb rest guarantees easy handling and prevents slipping even in dirty environments.

### Guide Quality

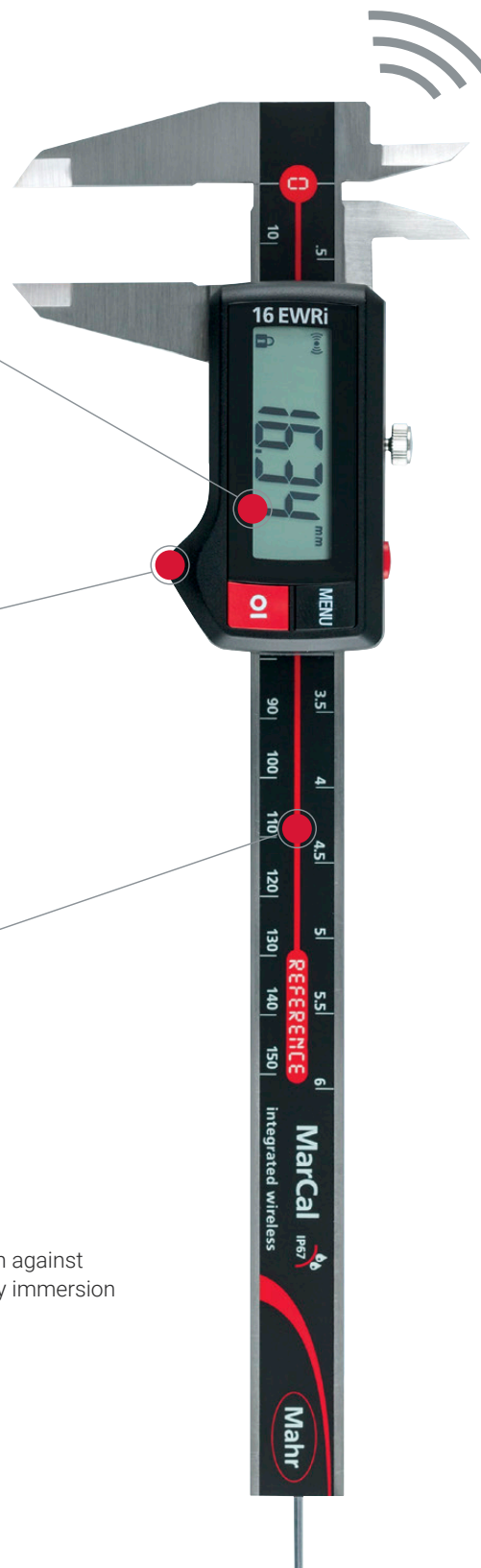
Lapped slideways provide the unique quality of even and sensitive gliding of the slide. In addition, the service life is longer than that of ground guides due to a much greater percentage contact area of the slideway.

Lapped  
Mahr-Guide

Competitor A  
Ground Guide

Competitor B  
Ground Guide

IP67 Protection against  
temporary immersion  
Dust-tight





## MarCal 16 EWRI

Digital Caliper



REFERENCE

### 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)

### Features

- 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 with Reference System
- Raised guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software 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 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case

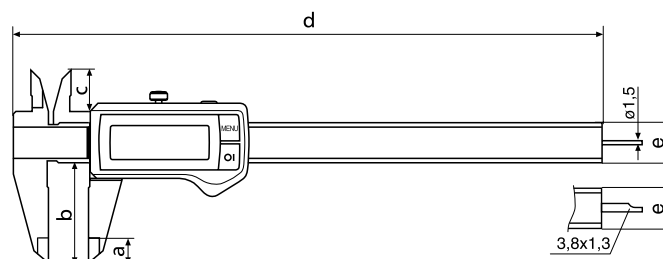


Integrated Wireless

### Technical Data

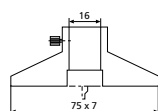
Order No.	Measuring Range	Resolution	Error Limit	Standard	Depth Rod	Friction Wheel
4103400	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Round	•
4103401					Rectangular	•
4103402						•
4103403	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	0,03 mm	Factory Standard	Rectangular	•
4103404						•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

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



### Accessories

Order No.	Product Name	Type
4102020	Depth bridge (75 mm x 7 mm)	16 Em
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	



16 Em



i-Stick



## MarCal 16 EWri-V

Digital Universal Caliper



REFERENCE

Integrated Wireless

### Functions

- AUTO-ON/OFF
- ON/OFF
- DATA (data transmission via connection cable)
- HOLD (storage of measured values)
- PRESET (for entering a numerical value)
- RESET (set display to zero)
- mm/inch
- LOCK-Function (key lock)

### Features

- High contrast analog display
- Locking screw on top
- 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 guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software download:  
[www.mahr.com/marcom](http://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 6 months in wireless mode)
- IP Protection Category:** IP 67
- Package Contains:** battery, instruction manual, case, setting gage for inside measurement  
16 Eel, measuring force device  
16 Ec, depth measuring bridge  
16 Em, anvils for outside and inside measurement 16 Eea 1-3



### Application:

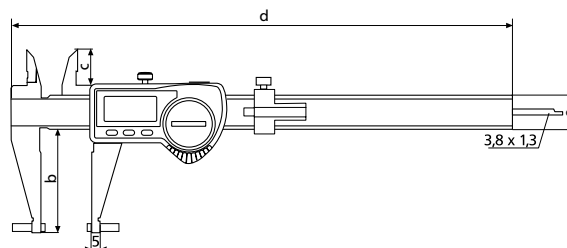
- Can be used as standard caliper (four measuring directions) with standard accessories for measuring recesses, grooves, etc.
- Can be used with special accessories for measuring threads, bores and gears



### Technical Data

Order No.	Measuring Range	Resolution	Error Limit	Standard	Depth Rod	Including Accessories
4118907	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Rectangular	•

Order No.	b	c	d	e
4118907	48 mm	16,5 mm	285 mm	16 mm



### Accessories

Order No.	Product Name	Quantity Unit	Type
4102020	Depth bridge (75 mm x 7 mm)		16 Em
4118810	Anvil for outside measurement (3,5 mm x 12 mm)	Piece	16 Eea 1
4118811	Anvil for outside measurement (1,5 mm x 6 mm)		16 Eea 2
4118812	Anvil for outside measurement (3,5 mm x 6 mm)		16 Eea 3
4118813	Anvil for inside measurement (3,5 mm x 6 mm)		16 Eei 1
4118814	Anvil for inside measurement (1,5 mm x 6 mm)		16 Eei 2
4118815	Anvil for inside measurement (3,5 mm x 6 mm)		16 Eei 3
4118816	Anvil for inside measurement (4 mm x 2,5 mm)		16 Eei 4
4118817	Setting gage for inside measurement (50 mm)		16 Eel
4118818	Measuring force device		16 Ec
4879602	Screws M2x8	Piece	
4118819	Mounting attachment for thread anvils 844 TG/844Tr and ball anvils 844 Tk		16 Eab



## MarCal 16 EWRI-C

Digital Caliper for Special Applications



REFERENCE

### Functions

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

### Features

- High contrast analog display
- Locking screw on top
- 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 guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software download:  
[www.mahr.com/marcom](http://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 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case



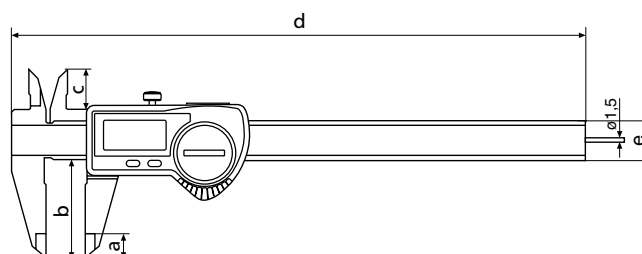
Integrated Wireless

### Application:

- Used to measure hard materials
- Outer measuring surfaces made of ceramic

### Technical Data

Order No.	Measuring Range	Resolution	Error Limit	Standard	Depth Rod
4103372	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	DIN 862	Round



### Accessories

Order No.	Product Name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	



i-Stick



## MarCal 16 EWri-H

Digital Caliper for Special Applications



REFERENCE

Integrated Wireless

### Functions

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

### Features

- High contrast analog display
- Locking screw on top
- 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 guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software download:  
[www.mahr.com/marcom](http://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 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case



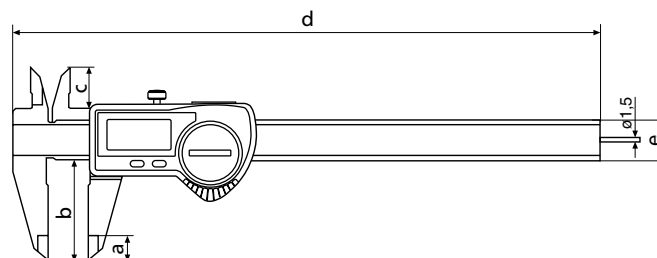
### Application:

- Used to measure hard materials
- Outer measuring surfaces made of carbide

### Technical Data

Order No.	Measuring Range	Resolution	Error Limit	Standard	Depth Rod
4103373	0 - 150 mm / 0 - 6 in	0,01 mm / .0005 in	0,03 mm	DIN 862	Round

Order No.	a	b	c	d	e
4103373	10 mm	40 mm	16 mm	235 mm	16 mm



### Accessories

Order No.	Product Name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	



i-Stick



## MarCal 30 EWRI

Digital Depth Gauge



REFERENCE

### Functions

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



Integrated Wireless

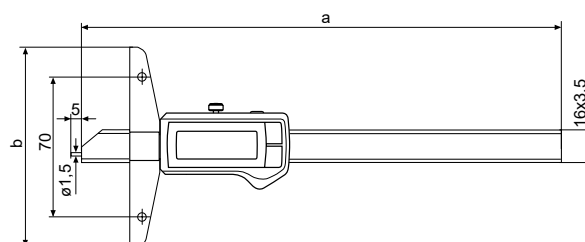
### Features

- High contrast analog display
- Locking screw on top
- Lapped guideway
- Measuring surfaces made of steel
- Slide and beam made of hardened stainless steel
- Immediate measurements due to the Reference System
- Raised guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- **Digit Height:** 11 mm
- **Data Interface:** Integrated Wireless
- **Energy Supply:** Battery life approximately 3 years (approximately 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case

### Technical Data

Order No.	Measuring Range	Resolution	Error Limit
4126755	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm
4126754	0 - 200 mm / 0 - 8 in		0,04 mm
4126756	0 - 300 mm / 0 - 12 in		0,05 mm
4126757	0 - 500 mm / 0 - 20 in		0,05 mm

Order No.	a	b
4126755	234 mm	100 mm
4126754	384 mm	150 mm
4126756	584 mm	150 mm
4126757	584 mm	150 mm

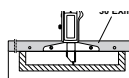


### Accessories

Order No.	Product name	Quantity	Type
4102220	Receiver for instruments with Integrated Wireless		i-Stick
4102520	Battery 3 V, CR 2032		
4125611	Anvil (4 mm)	Piece	30 ESa
4126510	Cross beam extension (300 mm)		30 EXm
4126511	Cross beam extension (200 mm)		



i-Stick



30 EXm



30 ESa



## MarCal 30 EWRI

Digital Depth Gauge



REFERENCE

Integrated Wireless

### Functions

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

### Features

- High contrast analog display
- Locking screw on top
- Lapped guideway
- Measuring surfaces made of steel
- Slide and beam made of hardened stainless steel
- Immediate measurements due to the Reference System
- Raised guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Data Interface:** Integrated Wireless
- **Energy Supply:** Battery life approximately 3 years (approximately 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case



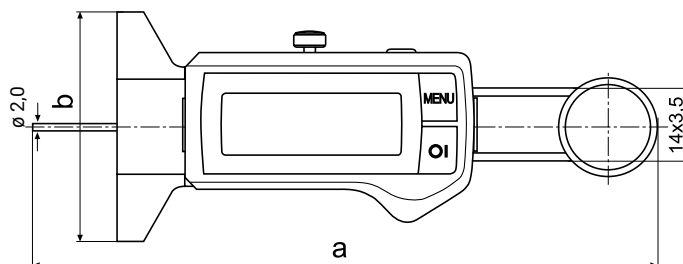
### Application:

- Small, handy, practical
- Ideal for mobile use in production, control and assembly
- For small measuring depths in bores and grooves

### Technical Data

Order No.	Measuring Range	Resolution	Error Limit	Standard	Depth Rod
4126751	0 - 25 mm / 0 - 1 in	0,01 mm / 0.0005 in	0,02 mm / 0.0008 in	Factory standard	Round

Order No.	a	b
4126751	129 mm	48 mm



### Accessories

Order No.	Product Name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	







## MarCal 30 EWri-U

Digital Depth Gage



REFERENCE

### Functions

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

### Features

- High contrast analog display
- Locking screw above
- Lapped guideway
- Measuring surfaces made of steel
- Slide and beam made of hardened stainless steel
- Immediate measurements due to the Reference System
- Raised guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers are integrated in the slide
- FREE Marcom Professional Software download:  
[www.mahr.com/marcom](http://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 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** Measuring anvil 30 Ud (twin hook for widths and distances), battery, instruction manual, case



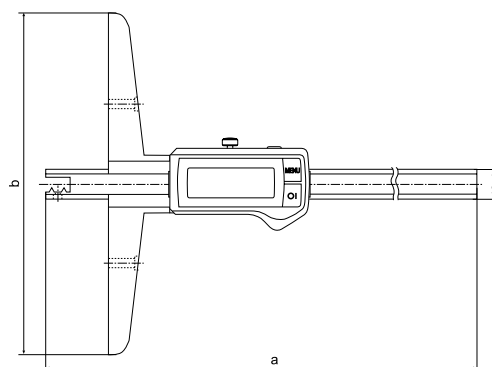
### Application:

- Measuring groove widths and distances between grooves (with standard 30 Ud anvil with twin hook)
- This depth gage can also be adapted to other measuring applications with the extensive range of optional accessories (anvils and adjustable measuring bridges)

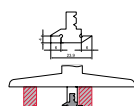
### Technical Data

Order No.	Measuring Range	Resolution	Error Limit	Standard
4126603	0 – 300 mm / 0 - 12 in	0,01 mm / 0.0005 in	0,04 mm	Factory standard
4126604	0 – 500 mm / 0 - 20 in		0,05 mm	

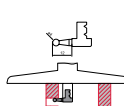
Order No.	a	b	c
4126603	385 mm	150 mm	16 mm
4126604	585 mm		



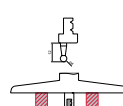
### Accessories



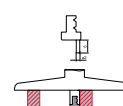
30 EUd  
Order No. 4126630



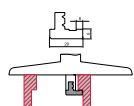
30 EUw  
Order No. 4126631



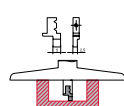
30 EUG  
Order No. 4126632



30 EUB  
Order No. 4126633



30 EUH  
Order No. 4126634



30 EUS  
Order No. 4126635



30 EUM Adjustable  
measuring bridge  
300 mm, Order No. 4126641  
400 mm, Order No. 4126641



i-Stick  
Order No. 4102220

Integrated Wireless





## MarCal

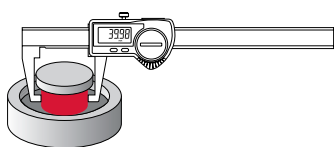
Digital Caliper for Special Applications

Integrated Wireless

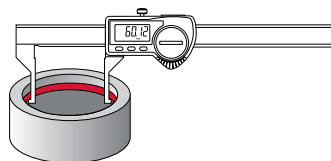


MarCal 16 EWri-BA

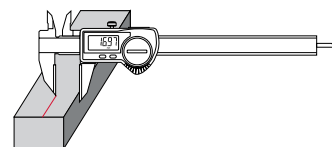
MarCal 16 EWri-AA



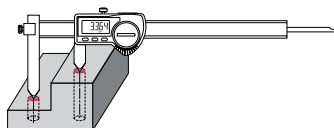
MarCal 16 EWri-AI



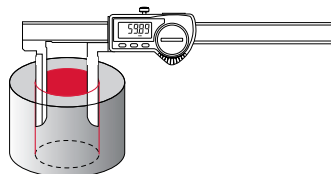
MarCal 16 EWri-AR



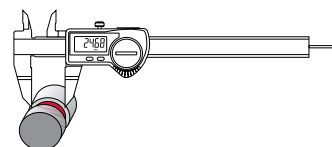
MarCal 16 EWri-BA



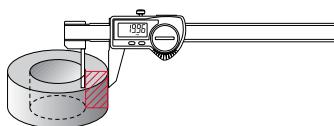
MarCal 16 EWri-LI



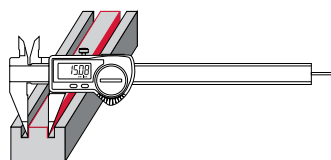
MarCal 16 EWri-NA



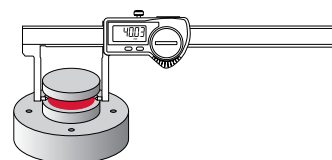
MarCal 16 EWri-RW



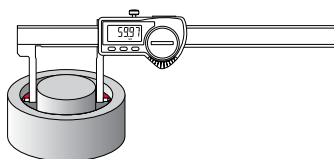
MarCal 16 EWri-S



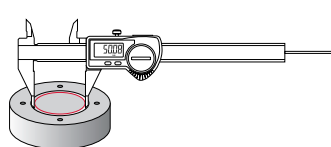
MarCal 16 EWri-SA



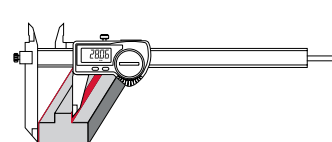
MarCal 16 EWri-SI



MarCal 16 EWri-SM



MarCal 16 EWri-VS





REFERENCE

## 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 on top
- 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 guideway for the protection of the scale
- Excellent resistance against dust, coolants and lubricants
- Dirt wipers integrated in the slide
- FREE Marcom Professional Software 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 6 months in wireless mode)
- **IP Protection Category:** IP 67
- **Package Contains:** battery, instruction manual, case

## Technical Data

Order No.	Model	Measuring Range	Resolution	Error Limit	Depth Rod
4103379	16 EWRI-AA	0 - 150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm	None
4103380	16 EWRI-AI	10 mm - 160 mm / 0.4 in - 6.3 in			Rectangular
4103382	16 EWRI-AR	0 - 200 mm / 0 - 8 in			
4103384	16 EWRI-BA	10 mm - 210 mm / 0.4 in - 8.3 in		0,04 mm	None
4103385	16 EWRI-LI	10 mm - 200 mm / 0.4 in - 8 in		0,05 mm	
4103374	16 EWRI-NA	0 - 150 mm / 0 - 6 in		0,03 mm	Round
4103381	16 EWRI-RW			0,05 mm	None
4103375	16 EWRI-S			Round	
4103377	16 EWRI-SA	0 - 140 mm / 0 - 5.5 in		0,03 mm	None
4103378	16 EWRI-SI	20 mm - 170 mm / 0.8 in - 6.7 in			
4103376	16 EWRI-SM	0 - 150 mm / 0 - 6 in			Round
4103383	16 EWRI-VS	0 - 200 mm / 0 - 8 in			0,04 mm

Order No.	Measuring Range	Resolution	Error Limit	Standard
4126603	0 - 300 mm / 0 - 12 in	0,01 mm / 0.0005 in	0,04 mm	Factory standard
4126604	0 - 500 mm / 0 - 20 in		0,05 mm	

Order No.	Product Name	Type
4102220	Receiver	i-Stick
4102520	Battery 3 V, CR 2032	



i-Stick

Integrated Wireless