

MAHR SPOTLIGHTS

All Products Available
For Fast Delivery!



MID-YEAR PROMOTION

PROMOTION PRICES

EFFECTIVE 5/1/2014 THROUGH 8/31/2014



- 0 +



EXACTLY



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PDF version

MarConnect Integrated Wireless

▶ | With Integrated Wireless, you have a new Integrated Wireless data transmission system from Mahr for the price of a cable. Data acquisition with digital calipers and indicators is now even easier: Simply transmit your measuring data, without being tangled up between cables, directly into Microsoft Office Excel® or via a keyboard code into any other Windows program. ◀ |

Inexpensive



With the Integrated Wireless receiver, up to 8 measuring instruments can be connected per i-stick, therefore expensive transmitters or interface boxes are no longer required.

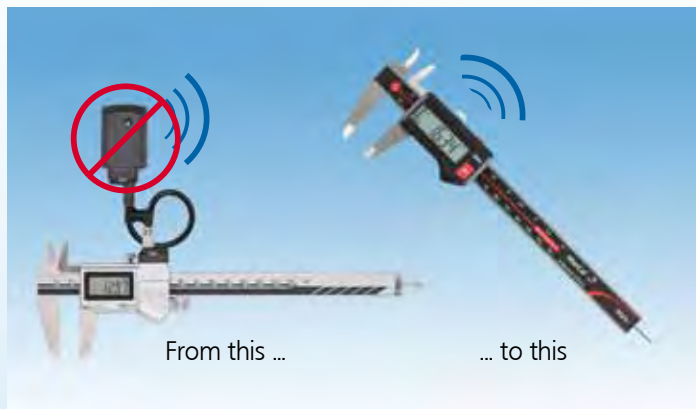
When just attaching a measuring instrument with the Integrated Wireless function, you already have a wireless data transmission for the price of a data cable.



Secure data transmission



When using Integrated Wireless, your data is transferred from the digital measuring instrument to the i-stick into the computer. This is confirmed with a message in the display of the measuring instrument.



From this ...

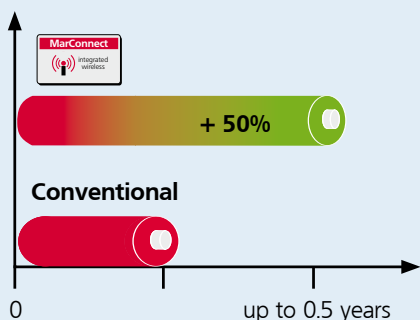
... to this

Expensive External Transmitters Are Eliminated

Long battery life-span



As the wireless interface is integrated in the digital measuring instruments, these are extremely energy efficient. No additional battery is needed for the typical wireless transmitter.



Wireless Bore Gaging on the Shop Floor

An Industry
Calipers and Indicators v
Eliminate Costly Ex
And Reduce Yo

Significant Savings Compared to "Add-On" Wireless Solutions!

Industry First
with Built-In Transmitters
Internal Transmitters
our Costs > 50%

- Integrated Wireless - Transmitter is built-in: no antenna, cable, or separate module required, just a receiver
- Economical - Significant savings compared to typical add-on wireless solutions
- Secure - Visual verification of transmitted data
- Simple Data Transmissions - Transfer measurements wirelessly to the PC and any Windows® applications



No Cables or Interface Boxes Needed

Simple data transmission



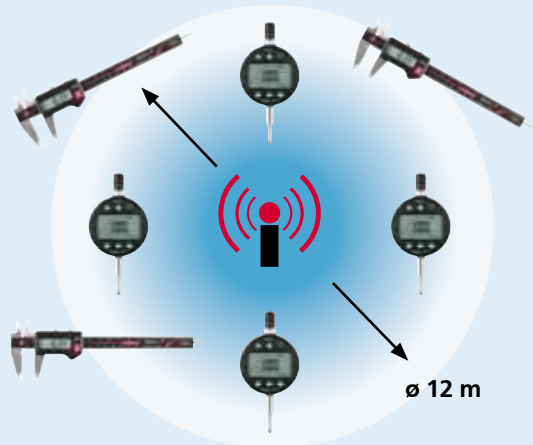
With the i-stick you can simply **transfer your measured values via the Integrated Wireless to the PC**. The measured values are sent directly (as with a data cable) via the MarCom software to Microsoft Office Excel® or by a keyboard code into any other Windows program.



Large transmission range



Integrated Wireless offers you considerably more **freedom of movement**. Whether at a measuring station, or measuring on or at the machine or with large workpieces, you are not obstructed by any cables.



Excellent ergonomics



Conduct measurements without additional modules. Compared to a bulky conventional radio transmission which requires a large external transmitter with a separate battery, the Integrated Wireless transmitter is integrated in the measuring instrument.

Digital Caliper MarCal 16 EWRI






Features

Functions:

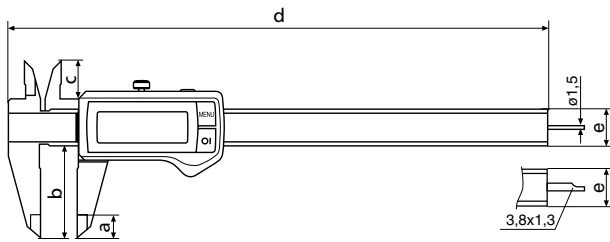
ON/OFF
 RESET (Set display to zero)
 mm/inch
 Reference Lock/Unlock
 Auto-ON/OFF
 Hold
 DATA

- Integrated Wireless data transmission
- Immediate measurement due to the Reference system
- Excellent resistance against dust, coolants and lubricants, protection class IP67
- 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 11 mm high digits
- Lapped guideway
- Slide and beam made of hardened stainless steel
- Measuring blades for inside measurement
- Step measuring function
- Locking screw
- Supplied with: Case, battery, operating instructions

Technical Data

Measuring range		Resolution	Error limit G	Depth rod	Friction wheel	Order no.	Introductory price
mm	(inch)	mm/inch	mm / inch		 		
150	(6")	0.01/.0005"	0.03 / .001"	●	●	4103400	\$214.00
150	(6")	0.01/.0005"	0.03 / .001"	●	●	4103401	\$214.00
150	(6")	0.01/.0005"	0.03 / .001"	●	●	4103402	\$214.00
150	(6")	0.01/.0005"	0.03 / .001"	●	●	4103403	\$214.00
200	(8")	0.01/.0005"	0.03 / .001"	●	●	4103404	\$248.00
200	(8")	0.01/.0005"	0.03 / .001"	●	●	4103405	\$248.00
300	(12")	0.01/.0005"	0.04 / .0015"	●	●	4103406	\$371.00
300	(12")	0.01/.0005"	0.04 / .0015"	●	●	4103407	\$371.00

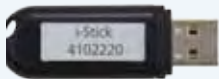
Technical Data



Dimensions

mm	a	b	c	d	e
150	10	40	16	235	16 x 3
200	10	50	19	285	16 x 3.5
300	14	64	19	388	16 x 4

Accessories for Creating your Wireless Data Collection System



i-Stick wireless receiver with MarCom Standard
Allows for 8 wireless devices per stick and 68 wired devices when used with Marcom Professional

Order no. 4102220
List Price \$154.00



Software MarCom Professional 4.0
Allows for up to 4 i-Sticks per computer

Order no. 4102552
List Price \$394.00

Software MarCom Standard 3.1

Order no. 4102551
List Price \$115.00

Create Your Personal Data Collection Network

Basic - MarCom Standard



Advanced - MarCom Professional



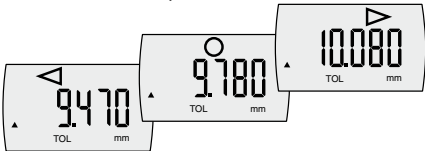
MarCator 1086 Ri

► The new Digital Indicator **MarCator** 1086 Ri. With the large display and the integrated tolerance function, your measurement results are clearly visual. | ◀

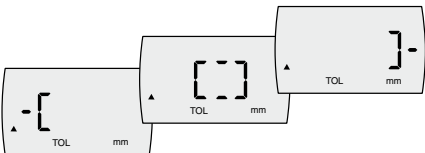
Clear display

Tolerance indication with the displayed value

Displayed is the actual measured value and the tolerance zone position



Tolerance indication without the value in the display. In and Out of tolerance will be indicated in the display as a symbol.



IP Protection class IP54 (optional)

- Protection cap is sealed
- Rubber bellows for the measuring spindle (see accessories)
- Sealed battery compartment

Code Initial	IP	International Protection
First Numeral	5	Dust protected
Second Numeral	4	Protection against splash water in all directions

Error-free operation



Lock function: This prevents unintentional activation of an operating button. Either all the operating buttons or only certain individual buttons can be locked. If a locked operating button is pressed, the "LOC" symbol appears in the display.

Universal Data-Interface



- **Integrated Wireless**
The wireless interface for the price of a data cable



- **USB**
No interface box is required! Simple and inexpensive way to set up a multiple measuring instruments via a USB hub



- **Digimatic**
To connect a Digimatic compatible evaluation instrument



- **Mahr Opto RS232C**
For direct connection to a COM port on a PC



Absolute function:

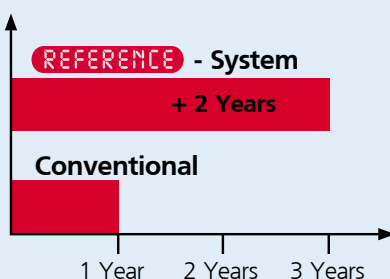
Digital Indicator can be set in any position to 0.000 without losing the reference to the preset value.

Scan for more information



Battery service life is 3 years

The new Reference system is extremely energy efficient when the indicator is in standby mode, almost no power is required, thus **extending the life of the battery up to 3 years***.

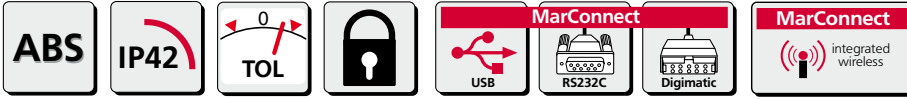


* When Integrated Wireless is deactivated

Just set once to zero

REFERENCE The new Digital Indicators 1086 Ri are equipped with the innovative Reference system. The zero position only has to be set one time: once it is set, the zero remains stored for all further measurements. Therefore, when the indicator is switched ON or the measuring spindle is moved, the indicator is immediately ready for measurement; thus the need to reset as with a conventional indicator is now obsolete.

Digital Indicators MarCator 1086 Ri Resolution 0.01mm / 0.00005"



REFERENCE

List Price From \$617.00
 Promo Price From \$560.00

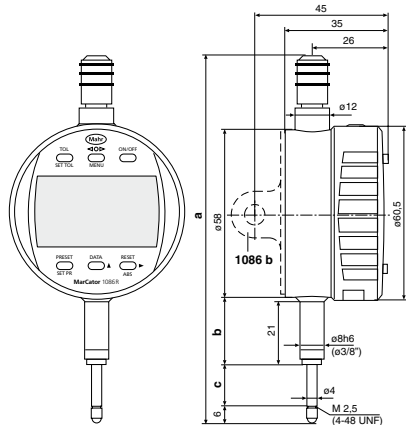
OVER 10% SAVINGS



4337124
12.5mm



4337134
12.5mm



Dimensions

Meas. range		a	b	c
mm	(inch)	mm	mm	mm
12.5	(.5")	126.3	23	13.5
25	(1")	153.4	26.8	26.5

Features

Functions:

- ON/OFF
- RESET (Set display to zero)
- mm/inch
- Reversal of the counting direction
- PRESET (Allows the entry of any value using set buttons)
- TOL (Enter tolerance limit values)
- ABS (Display can be set to zero, without losing the reference to the Preset value)
- <0> (Tolerance GO / NO GO display mode)
- DATA (when connected with a data connection cable)
- Factor (adjustable)
- Immediate measurement due to the Reference system
- Individual buttons can be locked - Lock Function
- Operating and display unit (bezel) can be rotated 280°
- High contrast LCD with 11 mm high digits
- Operating time approx. 3 years (2000 work. hrs/year)
- Maximum measuring speed 1.5 m/s (60"/s)
- Lifter protection cap on the measuring spindle
- MarConnect data output, choose either:
 - USB
 - OPTO RS232C
 - Digimatic
 - Integrated Wireless
- Operating temperature 10 - 40°C
- Class of protection IP42 in accordance to IEC 60529

Supplied with:
 Battery,
 Operating instructions

Technical Data

Measuring range		Resolution	Span of error*	Measuring force	Weight	Mounting shank	Order no.	List price	Promo price
mm	(inch)	mm / inch	mm	N	g				
12.5	(.5")	0.001 / .00005"	0.005	0.65 - 0.90	130	8h6	4337124P	\$720.00	\$650.00
25	(1")	0.001 / .00005"	0.005	0.65 - 1.15	140	8h6	4337125P	\$781.00	\$700.00
50	(2")	0.001 / .00005"	0.008	1.25 - 2.70	190	8h6	4337126P	\$1,200.00	\$1,080.00
100	(4")	0.001 / .00005"	0.009	1.60 - 3.50	235	8h6	4337127P	\$1,500.00	\$1,350.00
12.5	(.5")	0.01 / .0005"	0.02	0.65 - 0.90	130	8h6	4337134P	\$617.00	\$560.00
25	(1")	0.01 / .0005"	0.02	0.65 - 1.15	140	8h6	4337135P	\$699.00	\$630.00

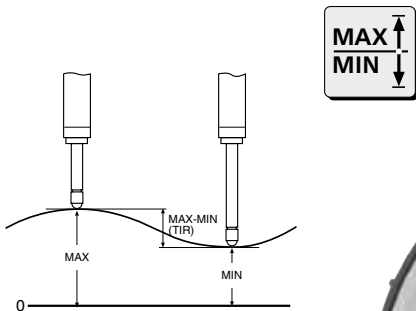
* in any zero point

MarCator 1087 Ri

► | The new Digital Indicator **MarCator** 1087 Ri. The multi-functional Digital Indicator with a combined analog and digital display as well as tolerance and dynamic measuring functions. | ◀

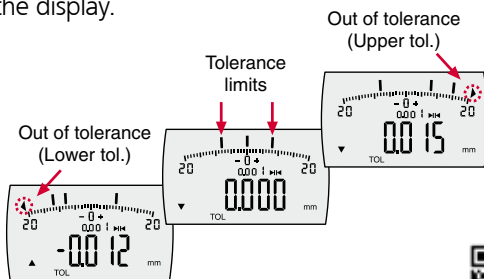
Dynamic measuring functions

- **MAX-MIN**-Function ideal for testing flatness and concentricity
- **MAX** and / or **MIN** for searching the reversal point



Clear display Tolerance indication

The Integrated bar graph visualizes the tolerance deviation. Out of tolerance; above the upper or below the lower tolerance limit is represented by arrows shown in the display.



Scan for more information



Universal Data-Interface



- **Integrated Wireless**
The wireless interface for the price of a data cable



- **USB**
No interface box is required! Simple and inexpensive way to set up a multiple measuring instrument via a USB hub



- **Digimatic**
To connect a Digimatic compatible evaluation instruments



- **Mahr Opto RS232C**
For direct connection to a COM port on a PC



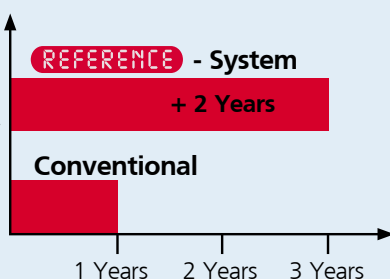
- **Absolute function:**
Digital Indicator can be set in any position to 0.000 without losing the reference to the preset value

Just set once to zero

REFERENCE The new Digital Indicators 1087 Ri are equipped with the innovative Reference system. The zero position only has to be set one time: once it is set, the zero remains stored for all further measurements. Therefore, when the indicator is switched ON or the measuring spindle is moved, the indicator is immediately ready for measurement; thus the need to reset as with a conventional indicator is now obsolete.

Battery service life is 3 years

The new Reference system is extremely energy efficient when the caliper is in standby mode, almost no power is required, thus **extending the life of the battery up to 3 years***.



* When Integrated Wireless is deactivated

Error-free operation



Lock function: This prevents unintentional activation of an operating button. Either all the operating buttons or only certain individual buttons can be locked. If a locked operating button is pressed the "LOC" symbol appears in the display.

Digital Indicators MarCator 1087 Ri with analog display



List Price From
\$823.00
Promo Price From
\$740.00

OVER 10% SAVINGS

REFERENCE

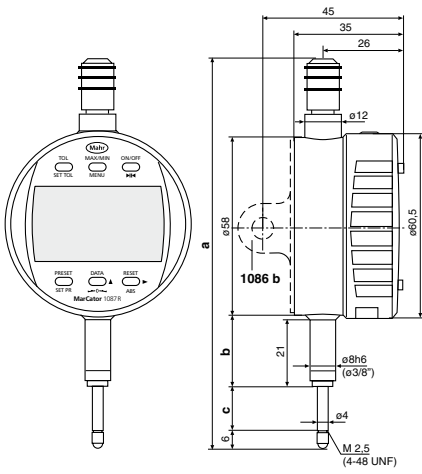


Features

Functions:

- ON/OFF
- RESET (Set display to zero)
- mm/inch
- Reverse the counting direction
- PRESET (Allows the entry of any value using set buttons)
- TOL (Enter tolerance limit values)
- Tolerance band max. 1.6 mm
- MAX/MIN memory, ideal for searching the reversal point
- TIR (MAX-MIN) ideal for testing concentricity and flatness
- ABS (Display can be set to zero, without losing the reference to the Preset value)
- 0 (Set analog display to zero)
- DATA (when connected with a data connection cable)
- Factor (adjustable)
- Immediate measurement due to the Reference system
- Individual buttons can be locked - Lock Function
- Operating and display unit (bezel) can be rotated 280°
- High contrast LCD with 8.5 mm high digits
- Operating time approx. 3 years (2000 work. hrs/year)
- Maximum measuring speed 1.5 m/s (60"/s)
- MarConnect data output, choose either:
 - USB
 - OPTO RS232C
 - Digimatic
 - Integrated Wireless
- Operating temperature 10 - 40°C
- Class of protection IP42 in accordance to IEC 60529

Supplied with:
Battery,
Operating instructions



Analog display

Readings		Display range	
mm	inch	mm	inch
0.001	.00005	± 0.02	± .001
0.002	.0001	± 0.04	± .002
0.004	.0005	± 0.08	± .01
0.01	.001	± 0.2	± .02

Dimensions

Meas. range	a	b	c
mm (inch)	mm	mm	mm
12.5 (.5")	126.3	23	13.5

Technical Data

Measuring range	Resolution	Span of error*	MarConnect	Measuring force	Weight	Mounting shank	Order no.	List Price	Promo Price
mm (inch)	mm / inch	mm	integrated wireless	N	g				
12.5 (.5")	0.001 / .00005"	0.005	●	0.65 - 0.90	140	8h6	4337163P	\$823.00	\$740.00
25 (1")	0.001 / .00005"	0.005	●	0.65 - 1.15	150	8h6	4337165P	\$879.00	\$790.00

* in any zero point

Digital Indicator MarCator 1087 BRi for 2 point inside measurement



Features

Functions:

- ON/OFF
- RESET (Set the display to zero)
- mm/inch
- Reversal of the counting direction
- PRESET (Allows the entry of any value using set buttons)
- TOL (Enter tolerance limit values)
- Tolerance band max. 1.6 mm
- START/STOP for searching the reversal point
- MAX/MIN memory, ideal for searching the reversal point
- ABS (Display can be set to zero, without losing the reference to the Preset value)
- 0 (Set analog display to zero)
- DATA (when connected with a data connection cable)
- Factor (adjustable)
- Immediate measurement due to the Reference system
- Individual buttons can be locked - Lock Function
- Operating and display unit (bezel) can be rotated 280°
- High contrast LCD with 8.5 mm high digits
- Operating time approx. 3 years (2000 work. hrs/year)
- Max. meas. speed 1.5 m/s (60"/s)
- Sealed protection cap
- MarConnect data output, choose:
 - USB
 - OPTO RS232C
 - Digimatic
 - Integrated Wireless
- Operating temperature 10 - 40°C
- Class of protection IP42 in accordance to IEC 60529
- Supplied with:
 - Battery,
 - Operating instructions

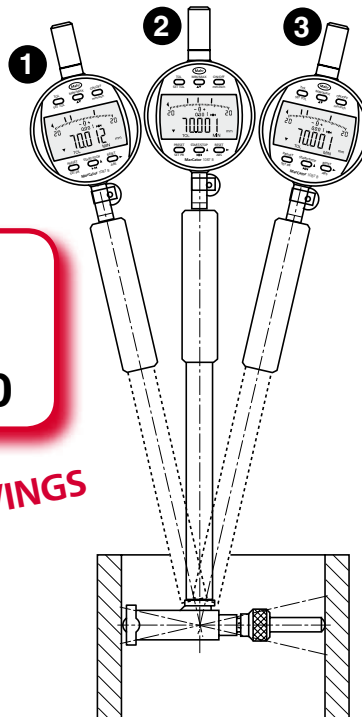
REFERENCE



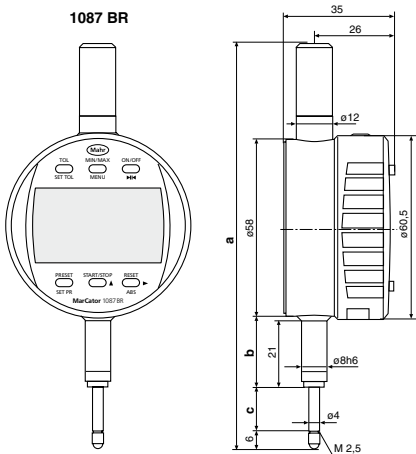
List Price
\$875.00
Promo Price
\$790.00

OVER 10% SAVINGS

Example of application



With a 2 point inside measuring instrument, the point of reversal is automatically determined through rocking back and forth. The actual value is detected and stored by the MIN function and indicated in the display (3).



Dimensions

Meas. range	a	b	c
mm (inch)	mm	mm	mm
12.5 (.5")	126.3	23	13.5

Analog display

Readings		Display range	
mm	/ inch	mm	/ inch
0.001	/ .00005	± 0.02	/ ± .001
0.002	/ .0001	± 0.04	/ ± .002
0.004	/ .0005	± 0.08	/ ± .01
0.01	/ .001	± 0.2	/ ± .02

Technical Data

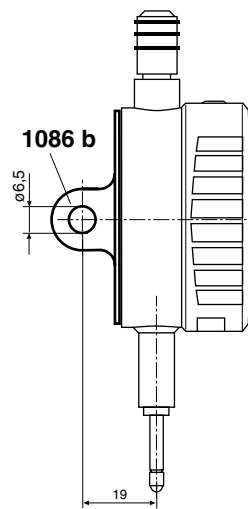
Measuring range	Resolution	Span of error*	Measuring force	Weight	Mounting shank	Order no.	List Price	Promo Price
mm (inch)	mm / inch	mm	N	g				
12.5 (.5")	0.001 / .00005"	0.005	0.65 - 0.90	140	8h6	4337164P	\$875.00	\$790.00

* in any zero point

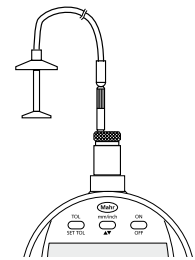
Accessories for MarCator

Accessories for 1086 Ri, 1087 Ri and 1087 BRi

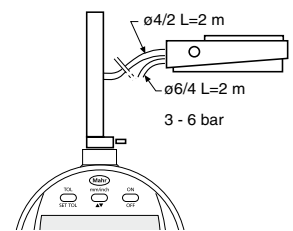
	Order no.
Battery 3V , Type CR 2450	4884464
Mounting Lug	1086 b 4337421
Cable Release for measuring ranges 12.5 and 25 mm	1085 a 4336311
Pneumatic Lifter for measuring ranges 12.5 and 25 mm	1082 p 4336237
Rubber Bellows for 12.5mm	4337472
Rubber Bellows for 25mm	4337474
Additional Accessories	Catalog page
Contact Points	901-913 5-52
Special Holder	941 5-53
Sensor Lever	943 5-53



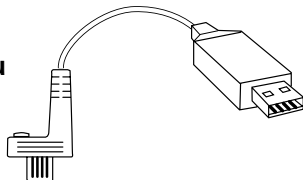
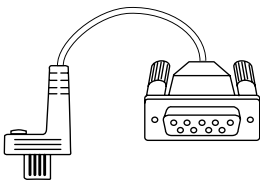
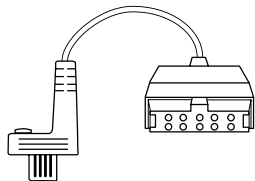


1085 a



1082 p (12,5/25)



Accessories for Creating your Data Collection System

	Order no.	List price
<p>16 EXu</p> 	16 EXu 4102357	\$136.00
<p>16 EXr</p> 	16 EXr 4102410	\$80.00
<p>16 EXd</p> 	16 EXd 4102411	\$84.50
<p>i-Stick wireless receiver with MarCom Standard Allows for 8 wireless devices per i-Stick and 68 wired devices when used with Marcom Professional</p> 	4102220	\$154.00
<p>Software MarCom Professional 4.0 Allows for up to 4 i-Sticks per computer</p> 	4102552	\$394.00
<p>Software MarCom Standard 3.1</p>	4102551	\$115.00

Accessories for Data Processing, see Dimensional Metrology Catalog Chapter 11

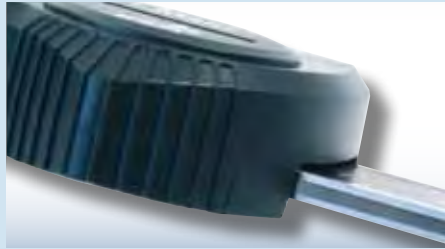
MarCal. The new Generation of digital calipers with the Reference System

WATERPROOF CALIPERS

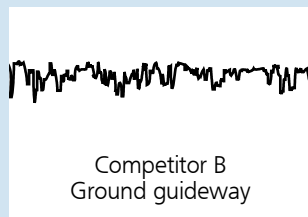
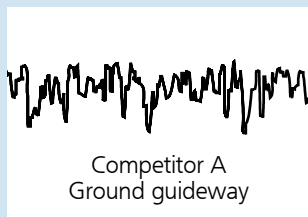
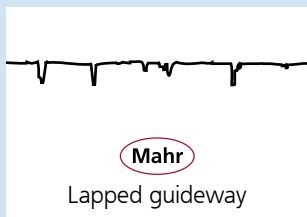
Complete Line
Full Feature Digital

Lapped guideways for superior performance

Only MarCal calipers have lapped guideway surfaces, which 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.

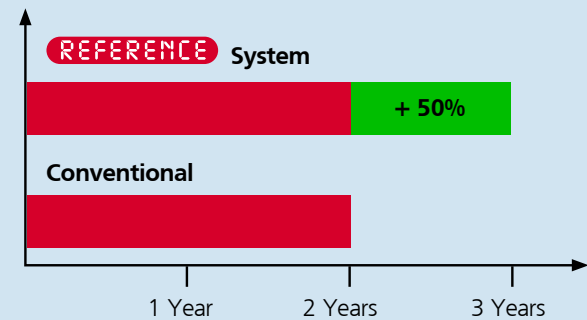


Surface of the guideway



50% longer battery lifetime

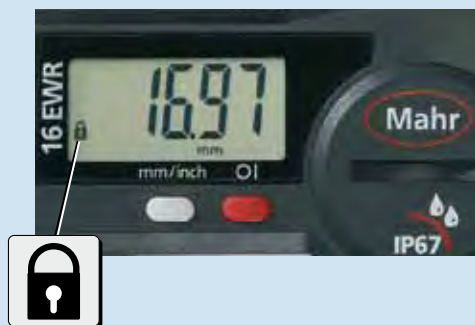
The new Reference system is extremely energy efficient when the caliper is in standby mode, almost no power is required, thus extending the life of the battery to up to 50%.



Security due to the Reference Lock function

- Zero position is secured
- Operating error is not possible

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



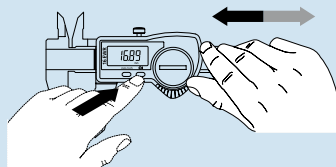
MarCal - The innovative Reference System

Just set reference once

All Mahr digital calipers with this logo **REFERENCE** are equipped with a zero position just has to be set once; after setting the zero position, the zero reading is maintained. Therefore, once the caliper is switched ON or the slide is moved, the caliper does not need to be reset to zero with a conventional caliper once the caliper is switched ON.

REFERENCE System

- ① Switch ON



REFERENCE

...ne of
...igital Calipers



List Price
\$179.00
Promo Price
\$135.00

The only one with a universal MarConnect interface

Regardless of which evaluation device you are using, with a MarConnect interface you always have the optimal connection.



USB ready: For direct connection to a PC when using our MarCom software, you can transfer your measured values directly into MS Excel or with a keyboard code into any application.



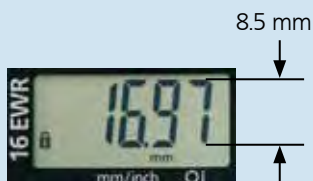
Digimatic: To connect to Digimatic compatible evaluation devices.



Mahr Opto RS232: To connect to the COM interface on a PC.

Ergonomic Design

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



The high-contrast display with 8.5 mm high digits enables accurate, fatigue-free reading of the measurement results.

Excellent resistance against dust, coolant and lubricants

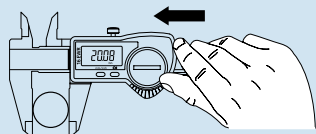


Due to the outstanding protection against dust and water, the Digital Caliper MarCal 16 EWR Reference delivers precise and secure results even in the most difficult workshop conditions.



...with the innovative Reference system. The
...remains stored for all further measurements.
...s immediately ready for measurement. The
...d on has now become obsolete.

② Result of measurement



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

How to Receive Your Free Caliper

► | This promotional brochure contains products carrying a **Free Caliper Symbol** as seen below. When you order a product with the Free Caliper Symbol from this brochure - by the special order number specified, you will also receive one free **16 ER** - our newest and performance packed caliper, order number **4103000**.

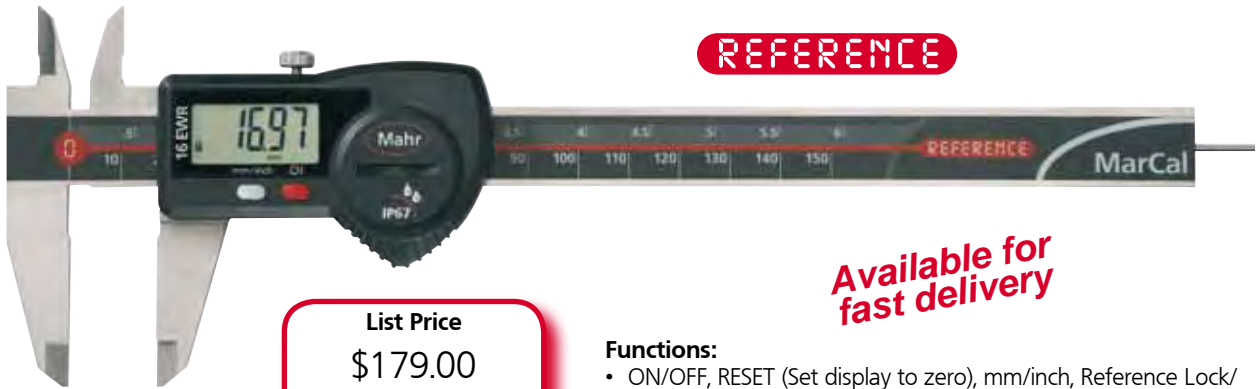
The values in this brochure are hot, but when combined with the free 16 ER they are untouchable!

Order yours today.



ree
16 ER Caliper
List Price: \$129.00

MarCal Digital Caliper 16 EWR with Reference System, Protection Class IP67, no output



List Price
\$179.00
Promo Price
\$140.00

Available for fast delivery

Functions:

- ON/OFF, RESET (Set display to zero), mm/inch, Reference Lock/Unlock, Auto-ON/OFF
- Immediate measurement due to the **Reference system**
- Excellent resistance against dust, coolants and lubricants, **Protection Class IP67**
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Lapped guideway



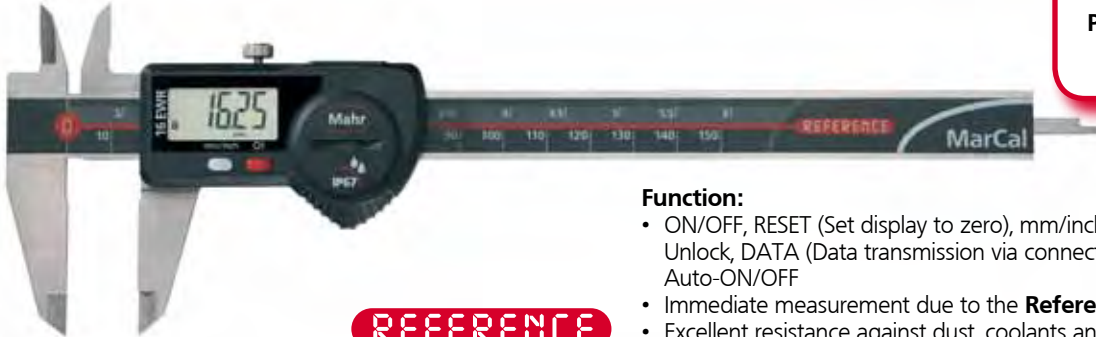
For further detailed information see:
www.mahr.com
WebCode 13526-11250

	Measuring range		Resolution	Error Limit G	Depth rod		Friction Wheel	Order no.	List price	Promo price
	mm	(inch)			mm / inch	mm				
16 EWR	150	(6")	0.01 /0.0005"	0.03	●			4103060P	\$179.00	\$140.00
16 EWR	150	(6")	0.01 /0.0005"	0.03		●		4103062P	\$179.00	\$140.00
16 EWR	150	(6")	0.01 /0.0005"	0.03	●		●	4103061P	\$179.00	\$140.00
16 EWR	150	(6")	0.01 /0.0005"	0.03		●	●	4103063P	\$179.00	\$140.00

MarCal Digital Caliper 16 EWR with Reference System, Protection Class IP67, with output



List Price From
\$214.00
Promo Price From
\$165.00



REFERENCE

Function:

- 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
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Measuring blades for inside measurement



For further detailed information see:
www.mahr.com
WebCode 2553

	Measuring Range		Resolution	Error Limit G	Depth Rod		Friction Wheel	Order no.	List price	Promo price
	mm	(inch)			mm / inch					
16 EWR	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103064P	\$214.00	\$165.00
16 EWR	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103066P	\$214.00	\$165.00
16 EWR	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103065P	\$214.00	\$165.00
16 EWR	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103067P	\$214.00	\$165.00
16 EWR	200	(8")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103068P	\$248.00	\$191.00
16 EWR	200	(8")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103069P	\$248.00	\$191.00
16 EWR	300	(12")	0.01 / 0.0005"	0.04 / 0.0015"	●	●		4103070P	\$371.00	\$286.00
16 EWR	300	(12")	0.01 / 0.0005"	0.04 / 0.0015"	●	●		4103071P	\$371.00	\$286.00

MarCal. Digital Caliper 16 ER with Reference system and output



List Price From
\$155.00
Promo Price From
\$118.00

Functions:

- ON/OFF, RESET (Set display to zero), mm/inch, Reference-Lock/Unlock, Auto-ON/OFF
- Immediate measurement due to the **Reference system**
- **MarConnect** data output, choose alternatively: USB, OPTO RS232C or Digimatic
- Life of the battery up to **3 years**
- High contrast Liquid Crystal Display with 8.5 mm high digits
- Beam and crossbeam are made of hardened stainless steel



For further detailed information see:
www.mahr.com
WebCode 2184

	Measuring range		Resolution	Error limit G	Depth Rod		Order no.	List price	Promo price	
	mm	(inch)			mm / inch	mm / inch				
16 ER	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103002P	\$155.00	\$118.00
16 ER	150	(6")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103003P	\$155.00	\$118.00
16 ER	200	(8")	0.01 / 0.0005"	0.03 / 0.001"	●	●		4103004P	\$210.00	\$147.00
16 ER	300	(12")	0.01 / 0.0005"	0.04 / 0.0015"	●	●		4103005P	\$330.00	\$229.00

Pocket Surf® The portable surface roughness gage

List Price From

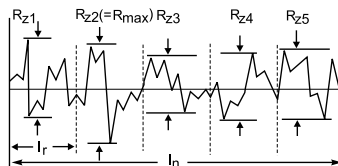
\$2,310.00

Promo Price From

\$1,899.00



- Pocket-sized economically priced, completely portable instrument
- Solidly built, with a durable cast aluminum housing, to provide years of accurate, reliable surface finish gaging
- Can be used to measure any one of four, switch-selectable, parameters: R_a , R_{max}/R_y , R_z



- Selectable traverse length 1, 3 or 5 cut-offs of 0.8 mm/.030"
- Operates in any position – horizontal, vertical, and upside down
- Four switchable probe positions – axial (folded) or at 90°, 180° or 270°
- Even difficult-to-reach surfaces such as inside and outside diameters are accessible
- Integrated data output for SPC-processing
- Easy-to-read LCD readout presents the measured roughness value, in microinches or micrometers

Technical Data

Probing and Traverse Lengths

Parameters	Traverse Length (Nominal)	Evaluation Length	Number of Cutoffs/ Switch Position
R_a/R_y	2.0 mm/ .075" 3.5 mm/ .135"	0.8 mm/ .030" 2.4 mm/ .090"	1 3
$R_a/R_z/R_{max}$	5.0 mm/ .195"	4.0 mm/ .150"	5
Traverse Speed	5.08 mm/ .2" per second		
Cutoff	.08 mm/ .030" ASME 2 RC-filter		
Probe Type	Piezoelectric		
Maximum Stylus Force	15.0 mN / 1500 mgf		
Power	Consumer-type alkaline battery, 9 Volt		
Battery Capacity	Approx. 2500 measurements, depending on frequency of use and output option		
Operating Temperature	10° to 45°C / 50° to 113° F		
Storage Temperature	-20° to 65°C / -4° to 149° F		

Made in USA
Available for fast delivery

Scan for more information



Pocket Surf Sets

Order no.			List Price	Promo Price
EMD-1500-311P	EGH-1019	Probe, 90°, 10 µm radius, PMD-90101 Certified Specimen, incl. Test Certificate	\$2,310.00	\$1,975.00
EMD-1500-312P	EGH-1019	Probe, 90°, 10 µm radius, EMD-90010 Precision Specimen	\$2,230.00	\$1,899.00
EMD-1500-321P	EGH-1026	Probe, 90°, 5 µm radius, PMD-90101 Certified Specimen, incl. Test Certificate	\$2,310.00	\$1,975.00
EMD-1500-322P	EGH-1026	Probe, 90°, 5 µm radius, EMD-90010 Precision Specimen	\$2,230.00	\$1,899.00

A Pocket Surf kit is furnished complete in a fitted case, and includes a Pocket Surf unit with a General Purpose Probe** and a 3.2 µm/125 µinch (nominal) Reference Specimen**, 9 Volt battery, Riser Plate and Screwdriver.

** Part Numbers listed in table above.

MarSurf. Mobile Roughness Measurement M 300



NEW

List Price
\$5,270.00
Promo Price
\$4,800.00



Scan for more information



- Cable-free connection with Bluetooth
- Automatic selection of filter and traversing length conforming to standards
- Integrated thermal graphics printer of high print quality
- Data transfer of results and profiles via USB-interface to your PC
- Dynamic calibration function
- Evaluation of the common parameters as per ISO/JIS as well as characteristic curves, parameter lists (i. e. material ratio)
- Integrated memory for the results and measurements
- Tolerance monitoring in display and measuring record
- Printing of R-profile (ISO/ASME/JIS), P-profile (MOTIF), material ratio curve, measuring record
- 15 languages
- Units of measurement ($\mu\text{m}/\mu\text{inch}$) and standards (ISO/JIS/ASME/MOTIF) are selectable
- Number of sampling lengths selectable from 1 to 5

- Locking and/or password protection for instrument settings
- Plug-in power pack with three mains plugs, for input voltages from 90 V to 264 V
- Output of date and/or time of the measurements

Order no.	List price	Promo price
6910401+Cal	\$5,270.00	\$4,800.00



For further detailed information see:

www.mahr.com
WebCode 13279



Digimar. Height Measuring Instrument Digimar 817 CLM Quick Height - 2D

Digimar 817 CLM Quick Height. 350 / 600 / 1000 mm: The new Height Measuring Instrument with the innovative Quick Mode. Highly accurate rapid measurements, a wide range of measuring and evaluation possibilities and excellent operator comfort.

Fast measurement . . .

... by hand with "Quick-Mode" (patented)



Scan for more information

List Price From \$9,020.00
Promo Price From \$8,100.00

Display

Comfort to operate all measurement functions with the function keys



817 CLM - 2D 0 - 350 mm



817 CLM - 2D 0 - 600 mm

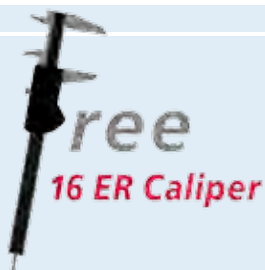


817 CLM - 2D 0 - 1000 mm



For further detailed information see:

www.mahr.com
WebCode 12369-8298



	2D			
Measuring range	mm / in	0-350 / 14"	0-600 / 24"	0-1000 / 40"
Application range	mm / in	520 / 20.47	770 / 30.31	1170 / 46.0
Resolution	mm	0.01 / 0.005 / 0.001 / 0.0005 / 0.0001		
	in	0.001" / 0.005" / 0.0001" / 0.00005" / 0.00001"		
	µm	1.8+L/600 (L in mm)		
Measuring error*				
Quick Mode		●	●	●
2-D		●	●	●
Motorized measuring carriage		●	●	●
Bore diameter		●	●	●
Max-Min		●	●	●
Tolerance monitoring		●	●	●
Perpendicularity / Straightness measurement		●	●	●
Measuring programs		40	40	40
Temperature compensation		●	●	●
Air bearings		●	●	●
Integrated USB memory		●	●	●
Data interface		RS232	RS232	RS232
USB printer interface		●	●	●
Order no.		4429010+CAL	4429011+CAL	4429012+CAL
List price		\$9,020.00	\$9,860.00	\$16,150.00
Promo price		\$8,100.00	\$8,880.00	\$14,500.00

* At 20°C in conjunction with a base plate in accordance to DIN 876/0 and a standard probe K6/51

Digimar. Height Measuring Instrument Digimar 817 CLM Quick Height

Easy to operate ...

... all functions can be operated via the speed keys



Operating and display unit with back-lit display

Measuring program ...

... for repetitive measurements / serial components



Perpendicularity (with optional probes*) ...

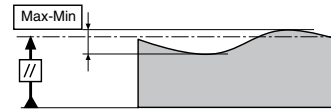
... and straightness measurements



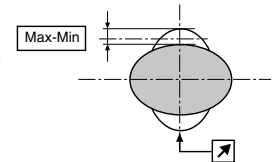
Dynamic measuring functions



Determine MAX, MIN, MAX-MIN with just one measurement



• Parallel deviation



• Roundness deviation

* Check with Mahr Federal Inc. for available electronic probe options

Digimar. Probe Accessory Sets for 817 CLM / 816 CL

Probe Set 817 ts1 consists of:	Shaft length mm	Mount dia. mm
817 h2 Carrier for probes	100	—
S15/31.2 Disc probe	31.2	6
Z10/31.2 Cylindrical probe	31.2	6
MKe 30 Taper probe	38.2	6
TMT 120 Depth probe incl. carrier	120	—
KM 2 Probe for M2 incl. probe 800 ts	31.7	6
817 h4 Carrier for probes	—	8
K4/30 Spherical probe	31	8
K6/40 Spherical probe	31	8
K10/60 Spherical probe	62	8
K10/100 Spherical probe	103	8
Carrying case		
Probe Set 817 ts2 consists of:	Shaft length mm	Mount dia. mm
817 h2 Carrier for probes	100	—
S15/31.2 Disc probe	31.2	6
Z10/31.2 Cylindrical probe	31.2	6
MKe 30 Taper probe	38.2	6
TMT 120 Depth probe incl. carrier	120	—
KM 2 Probe for M2 incl. probe 800 ts	31.7	6
Carrying case		



From **\$972.00**

817 ts1

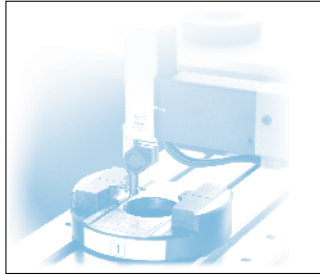
For further detailed information see:
www.mahr.com
WebCode 12369-8298

Probe Set	Order no.	List Price	Promo Price
817 ts1	4429019P	\$1,570.00	\$1,413.00
817 ts2	4429018P	\$1,080.00	\$972.00

▶ | **DIMENSIONAL METROLOGY**



Precision Gages



Precimar.
Precision Length Metrology



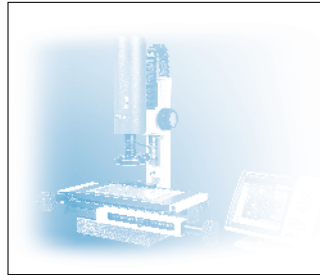
MarSurf.
Surface Metrology



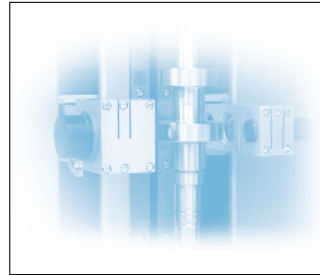
MarForm.
Form Metrology



MarGear.
Gear Metrology



MarVision.
Optical Metrology



MarShaft.
Shaft Metrology



Services

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