MAHRLIGHTS

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9 | 2018

MICROMAR 40 EWRi

MARSURF® M 400

* FREE Download

MARCOM PROFESSIONAL

DIGIMAR® 817 CLM

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MICROMAR 40 EWRi-L

COCKPIT SOFTWARE

MARCONNECT i-STICK

MARCAL 16 EWRi

Promotion prices valid from September 1st through December 31st 2018

* MARCOM PROFESSIONAL SOFTWARE INTERFACE FOR CONNECTING MEASURING INSTRUMENTS BY CABLE OR WIRELESS - NOW AVAILABLE TO DOWNLOAD FREE OF CHARGE - See page 7

- 0 +

Mahr

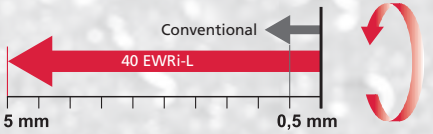
EXACTLY

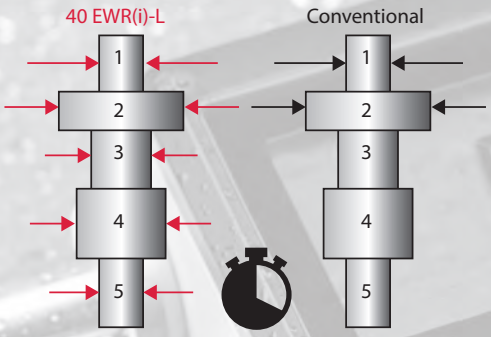
Micromar 40 EWRi-L | Digital Micrometer Waterproof Micrometer with Integrated Wireless and Quick Adjustment

Considerably shortened measuring times by quick adjustment

The spindle moves 5 mm in a single turn. Spindle speed is 10 times faster than, conventional micrometers, significantly reducing the measuring times.

The non-rotating spindle prevents scratch marks on sensitive and finely machined surfaces.





Large freedom of movement

MarConnect integrated wireless

Integrated Wireless gives you more freedom of movement. You are not obstructed by any cables when measuring on or at the machine or with large workpieces, while using an integrated wireless digital micrometer in conjunction with an indicating measuring instrument.

Security of the LOCK function

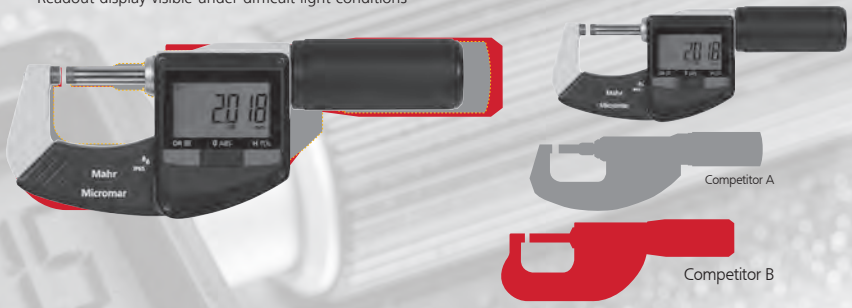
The digital micrometer Micromar 40 EWRi is equipped with a LOCK function.
With this keylock, the zero position is secured and operating error is avoided.

With the Integrated Wireless interface and free MarCom Software, it's possible to lock features individually.

Ergonomic design

Compact measuring screw with quick adjustment

- Ergonomically conducive for one-handed operation
- Large display
- Readout display visible under difficult light conditions



Unrestricted use

IP65 Excellent resistance against dust, coolants and lubricants

Code Initials	**IP**	International Protection
First digit	**6**	Dustproof
Second digit	**5**	Protected against powerful water jets

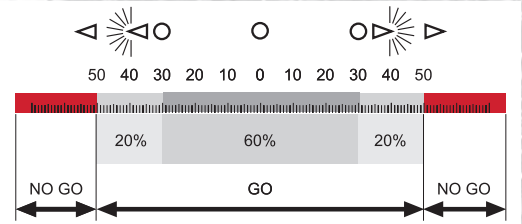
Timely detection of manufacturing deviations aided by tolerance warning limits

Measured value within tolerance limits

Warning limit: flashing arrow, if upper warning limit is reached

Warning limit: flashing arrow, if lower warning limit is reached

Measured value out of tolerance



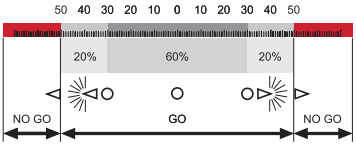
Micromar 40 EWRi-L

Wireless data transmission capability is integrated within the NEW Micromar 40 EWRi-L digital micrometer with a quick drive spindle where 1 turn of the thimble is now equal to 5 mm (0.2 in) of spindle travel. Moving to different sizes on a sample part is now 10 times faster than with a standard micrometer.

NEW

INTRODUCTORY PRICE
$550

ORDER NO. 4157120



IP65 | MarConnect Integrated Wireless | ABS System | TOL

REFERENCE

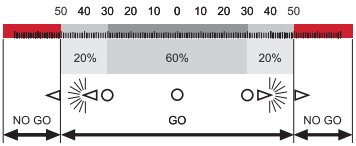
Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force
4157120	40 EWRi-L	$550	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N
4157121		$600	25 mm - 50 mm / 1 in - 2 in				
4157122		$650	50 mm - 75 mm / 2 in - 3 in		3 µm		
4157123		$715	75 mm - 100 mm / 3 in - 4 in				

Micromar 40 EWR-L Digital Micrometer with Quick Drive Spindle and Wired MarConnect Output

NEW

INTRODUCTORY PRICE
$525

ORDER NO. 4157020



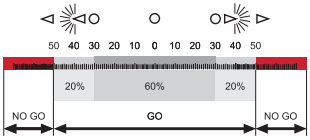
IP65 | USB | ABS System | TOL | Digimatic

REFERENCE

Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force
4157020	40 EWR-L	$525	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N
4157021		$575	25 mm - 50 mm / 1 in - 2 in				
4157022		$625	50 mm - 75 mm / 2 in - 3 in		3 µm		
4157023		$685	75 mm - 100 mm / 3 in - 4 in				

Wireless data transmission capability is integrated within the Micromar digital micrometer using proven wireless technology. With an extra large display, these micrometers are easy-to-read and include a number of advanced features such as a reference system that retains the zero position setting, absolute reading for comparative measurements, tolerance indicators to qualify parts, a lock feature to prevent user error and a hold feature to retain the measured value.

INTRODUCTORY PRICE
$349
ORDER NO. 4157100



REFERENCE

IP65 | MarConnect Integrated Wireless | ABS System | 0 TOL

Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force
4157100	40 EWRi	$349	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N
4157101		$419	25 mm - 50 mm / 1 in - 2 in				
4157102		$549	50 mm - 75 mm / 2 in - 3 in				
4157103		$599	75 mm - 100 mm / 3 in - 4 in				
4157104		$790	100 mm - 125 mm / 4 in - 5 in				
4157105		$815	125 mm - 150 mm / 5 in - 6 in				
4157106		$840	150 mm - 175 mm / 6 in - 7 in				
4157107		$860	175 mm - 200 mm / 7 in - 8 in				

Micromar 40 EWRi Digital Micrometer Set

INTRODUCTORY PRICE
$1,900
ORDER NO. 4157115

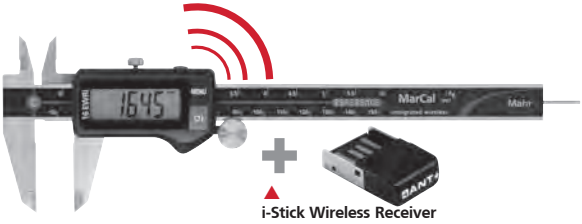
REFERENCE

IP65 | MarConnect Integrated Wireless | ABS System | 0 TOL

Order No.	Model	List Price	Measuring Range	Resolution	Number of Micrometers	Spindle Thread Pitch	Measuring Force
4157115	40 EWRi	$1900	0 - 100 mm / 0 - 4 in	0,001 mm / 0.00005 in	4	0,5 mm	5 N - 10 N

MarCal 16 EWRi Wireless Kit

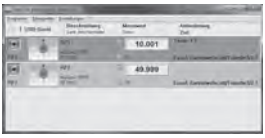
Wireless data transmission capability is integrated within MarCal digital calipers using proven wireless technology. These calipers are easy-to-read, with a large clear digital display, and include a number of advanced features such as lapped guideways, a reference system that retains the zero position setting and a number of product options and accessories.



i-Stick Wireless Receiver

PROMO PRICE
$342
LIST PRICE
$403

ORDER NO. 2121610



REFERENCE

IP67 | MarConnect Integrated Wireless

-15%

Order No.	List Price	Promo Price	Measuring Range	Resolution	Depth Rod		Friction Wheel
2121610*	$403	**$342**	150 mm / 6 in	0,01 mm / 0.0005 in	•		•
2121611*	$403	**$342**				•	•

** Starter set includes an i-Stick wireless receiver*

MarCal 16 EWRi Digital Caliper

PROMO PRICE
$199
LIST PRICE
$235

ORDER NO. 4103400

-15%

REFERENCE

IP67 | MarConnect Integrated Wireless

Order No.	List Price	Promo Price	Measuring Range	Resolution	Error Limit *G*	Depth Rod			Friction Wheel
4103400	$235	**$199**	150 mm / 6 in	0,01 mm / 0.0005 in	0,03 mm/ 0.001 in	•	•		
4103401	$235	**$199**				•	•		•
4103402	$235	**$199**				•		•	
4103403	$235	**$199**				•		•	•
4103404	$272	**$230**	200 mm / 8 in			•		•	
4103405	$272	**$230**				•		•	•
4103406	$408	**$346**	300 mm / 12 in		0,04 mm / 0.0015 in				
4103407	$408	**$346**							•

MarConnect i-Stick Wireless Receiver for Measuring Instruments with Integrated Wireless

The MarConnect i-Stick is a wireless receiver for Mahr's measuring instruments. You can transfer your measured values directly to your PC via proven wireless technology with the i-Stick.

MarConnect Integrated Wireless

PROMO PRICE
$142
LIST PRICE
$168

ORDER NO. 4102220

-15%

Order No.	**4102220**
List Price	$168
Promo Price	**$142**
Includes	USB Wireless Receiver for Mahr Measuring Instruments
Channels	3
Connectable Devices with Integrated Wireless	8 per i-Stick
Radio Frequency MHz	2400
Wireless Range	Up to 6 m / 19.6 ft
For Measuring Instruments	MarCal 16 EWRi / 30 EWRi ; Micromar 40 EWRi / WWWW40 EWRi-L MarCator 1086 Ri / 1087 Ri / 1087 BRi

MarConnect Integrated Wireless | USB | RS232C

MarCom Professional 5.2 Software Interface

MarCom Professional 5.2 Software transfers measuring values directly into MS Excel or via a keyboard code into any Windows® program or SPC software using a virtual interface box.

FREE DOWNLOAD
www.mahr.com/marcom

Order No.	**4102212**
List Price	$427
Promo Price	**FREE**
Connected Wireless Receivers for the i-Stick	4
Connectable Devices with Integrated Wireless	32
Connected Wireless Receivers for the e-Stick	1
Connectable Sender Modules for the e-Stick	8
Connected Wireless Receivers FM 2	1
Connectable Sender Modules for the Wireless Receivers FM 2	100
Devices to be Connected with a USB Interface	128
Connectable USB Foot Switches	128
Devices to be Connected with an RS232C Interface	2
Virtual Interface Boxes (8 Inputs)	4

PROMO PRICE
FREE
LIST PRICE
$427

MarCal 30 EWRi-D Digital Depth Gage

The 30 EWRi-D is a digital depth gage with hook contacts to read depths from the top or the bottom.

REFERENCE

IP67

MarConnect Integrated Wireless

PROMO PRICE
$580
LIST PRICE
$682

-15%

ORDER NO. 4126533

Order No.	List Price	Promo Price	Measuring Range	Resolution	Error Limit
4126533	$682	$580	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	0,03 mm
4126534	$850	$722	0 - 300 mm / 0 -12 in		0,04 mm

MarCal 30 EWRi-N Digital Depth Gage

The 30 EWRi-N is a versatile depth gage with interchangeable contact for various depth applications.

REFERENCE

IP67

MarConnect Integrated Wireless

PROMO PRICE
$663
LIST PRICE
$779

-15%

ORDER NO. 4126532

Order No.	List Price	Promo Price	Measuring Range	Resolution	Error Limit
4126532	$779	$663	0 - 100 mm / 0 - 4 in	0,01 mm / 0.0005 in	0,03 mm

MarCal 16 EWR-V / 16 EWRi-V Digital Universal Caliper

The MarCal 16 EWRi-V is a versatile precision measuring kit which can be employed in production. The kit contains interchangable contacts to meet virtually any measurement application. The Ri-V incorporates the Integrated Wireless transmitter.

PROMO PRICE
$495
LIST PRICE
$585

ORDER NO. 4118807

-15%

REFERENCE

IP67 | MarConnect Integrated Wireless | DIN 862

Order No.	List Price	Promo Price	Measuring Range	Resolution	Depth Rod	Wireless
4118807	$585	$495	0 - 200 mm / 0 - 8 in	0,01 mm / 0.0005 in	Rectangular	
4118907	$675	$574				X

MarCal 30 EWRi Digital Depth Gage

The 30 EWRi digital depth gage ensures reliable results due to its rigid design and versatile contact.

PROMO PRICE
$511
LIST PRICE
$602

ORDER NO. 4126755

-15%

REFERENCE

IP67 | MarConnect Integrated Wireless

Order No.	List Price	Promo Price	Measuring Range	Resolution	Error Limit
4126755	$602	$511	0 -150 mm / 0 - 6 in	0,01 mm / 0.0005 in	0,03 mm
4126754	$649	$551	0 - 1200 mm / 0 - 8 in		
4126756	$704	$598	0 - 1300 mm / 0 - 12 in		
4126757	$841	$715	0 - 1500 mm / 0 - 20 in		

MarCator 1086 R / 1086 Ri Digital Indicators

Fixed Resolution

The 1086 digital indicators with fixed resolution incorporate the reference system which automatically stores the zero position for further measurements. All 1086 digital indicators come standard with MarConnect. If you need to document your data, we have digital indicators which offer Integrated Wireless data transmission, the optimal solution for transmitting your measured values to a PC.

PROMO PRICE
$315
LIST PRICE
$371

ORDER NO. 4337130

-15%

REFERENCE

IP42 | MarConnect Integrated Wireless | MarConnect USB RS232C Digimatic | ABS System | TOL

Order No.	Model	List Price	Promo Price	Measuring Range	Resolution	Wireless
4337130	1086 R	$371	**$315**	12,5 mm / 0.5 in	0,01 mm / 0.0005 in	
4337131	1086 R	$485	**$412**	25 mm / 1 in		
4337132	1086 R	$809	**$687**	50 mm / 2 in		
4337133	1086 R	$1,060	**$900**	100 mm / 4 in		
4337134	1086 Ri	$428	**$363**	12,5 mm / 0.5 in		X
4337135	1086 Ri	$500	**$425**	25 mm / 1 in		X

Note: all indicators with 8 mm stem diameter

The 1086 digital indicators with selectable resolution offer large display and wet proof models, and incorporate the reference system which automatically stores the zero position for further measurements. All 1086 digital indicators come standard with MarConnect. If you need to document your data, we have digital indicators which offer Integrated Wireless data transmission, the optimal solution for transmitting your measured values to a PC.

PROMO PRICE
$390
LIST PRICE
$459

ORDER NO. 4337620

-15%

IP42 | MarConnect Integrated Wireless | USB | MarConnect RS232C | Digimatic | ABS System | 0 TOL

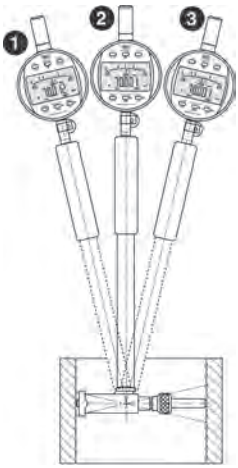
Order No.	Model	List Price	Promo Price	Measuring Span	Resolution	Wireless	Wet Proof IP54
4337620	1086 R	$459	**$390**	12,5 mm / 0.5 in	0,0005 mm, 0,001 mm, 0,002 mm, 0,005 mm, 0,01 mm / 0.00002 in, 0.00005 in, 0.0001in, 0.0002 in, 0.0005 in		
4337621	1086 R	$541	**$459**	25 mm / 1 in			
4337622	1086 R	$907	**$770**	50 mm / 2 in			
4337623	1086 R	$1,140	**$969**	100 mm / 4 in			
4337650*	1086 ZR	$459	**$390**	12,5 mm / 0.5 in			
4337651*	1086 ZR	$541	**$459**	25 mm / 1 in			
4337624	1086 Ri	$515	**$438**	12,5 mm / 0.5 in		X	
4337625	1086 Ri	$577	**$490**	25 mm / 1 in		X	
4337626	1086 Ri	$943	**$800**	50 mm / 2 in		X	
4337627	1086 Ri	$1,160	**$986**	100 mm / 4 in		X	
4337628**	1086 Ri	$593	**$504**	25 mm / 1 in		X	
4337640	1086 WR	$567	**$482**	12,5 mm / 0.5 in			X
4337641	1086 WR	$617	**$524**	25 mm / 1 in			X
4337142	1086 WRi	$608	**$516**	12,5 mm / 0.5 in		X	X
4337143	1086 WRi	$670	**$570**	25 mm / 1 in		X	X

*Note: all indicators with 8 mm stem diameter, * 3/8 in stem diameter, ** No gaging spring*

MarCator 1087 R/ 1087 ZR/ 1087 Ri/ 1087 BR / 1087 BRi Digital Indicators

Dynamic Capabilities

The 1087 digital indicators, with dynamic capabilities and analog bar graph, provide easy readings of MIN/MAX/ MAX-MIN conditions and incorporate the reference system which automatically stores the zero position for further measurements. All 1087 digital indicators come standard with MarConnect. If you need to document your data, we have digital indicators which offer Integrated Wireless data transmission, the optimal solution for transmitting your measured values to a PC. The BR version is specifically designed for adjustable bore gage use and greatly enhances operator usability.



▲ Bore Gage Version

▲ 12,5 mm Dynamic Capability

PROMO PRICE
$464
LIST PRICE
$546

ORDER NO. 4337660

-15%

REFERENCE

IP42 | MarConnect Integrated Wireless | MarConnect USB RS232C Digimatic | ABS System | 0 TOL | MAX MIN

Order No.	Model	List Price	Promo Price	Measuring Range	Resolution	Wireless	Bore Gage Version
4337660	1087 R	$546	**$464**	12,5 mm / 0.5 in	0,0005 mm, 0,001mm, 0,002 mm, 0,005 mm, 0,01 mm/ 0.00002 in, 0.00005 in, 0.0001 in, 0.0002 in, 0.0005 in		
4337661	1087 R	$629	**$534**	25 mm / 1 in			
4337670*	1087 ZR	$546	**$464**	12,5 mm / 0.5 in			
4337666	1087 R	$999	**$849**	50 mm / 2 in			
4337671*	1087 ZR	$629	**$534**	25 mm / 1 in			
4337663	1087 Ri	$593	**$504**	12,5 mm / 0.5 in		X	
4337665	1087 Ri	$698	**$593**	25 mm / 1 in		X	
4337667	1087 Ri	$1,075	**$913**	50 mm / 2 in		X	
4337662	1087 BR	$629	**$534**	12,5 mm / 0.5 in			X
4337664	1087 BRi	$696	**$591**			X	X

*Note: all indicators with 8 mm stem except * 3/8 in stem diameter*

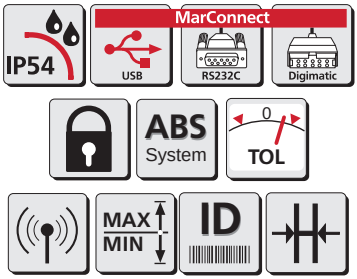
µMaxµm® II Digital Comparator

The µMaxµm II is a full-featured, economical digital comparator ideal for mechanical gage applications. The µMaxµm II is the top choice for bench or portable gage applications because it provides selectable resolution as well as all the features found in a bench amplifier.

PROMO PRICE
$348
LIST PRICE
$410

ORDER NO. 2034101

-15%



Order No.	List Price	Promo Price	Model	Range	Stem Diameter	Stem Length
2034101	$410	$348	Standard	±1,00 mm / ±0.040 in	0.375 in	11,7 mm / 0.46 in
2034103	$410	$348				38,0 mm / 1.50 in
2034201	$512	$435	Advanced			11,7 mm / 0.46 in
2034203	$512	$435				38,0 mm / 1.50 in

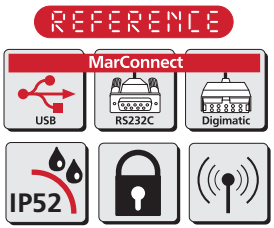
Digital Indicator 1075 R

1075 R digital indicators 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.

PROMO PRICE
$169
LIST PRICE
$199

ORDER NO. 4336010

-15%

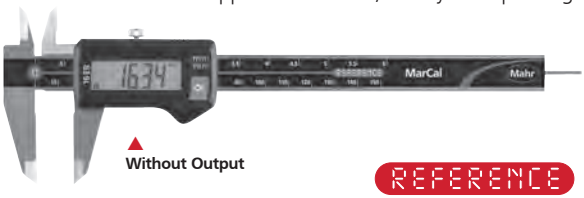


Order No.	List Price	Promo Price	Measuring Range	Resolution
4336010	$199	$169	12,5 mm / 0.5 in	0,01 mm / 0.0005 in
4336020	$270	$229		0,005 mm / 0.0001 in
4336030	$330	$280		0,001 mm / 0.00005 in

In any zero point. All indicators with 8 mm stem diameter.

MarCal 16 ER Digital Caliper

The MarCal 16 ER features a new ergonomic design with lapped guideways - perfect for your daily measurement needs. Supplied with a case, battery and operating instructions.



▲ Without Output

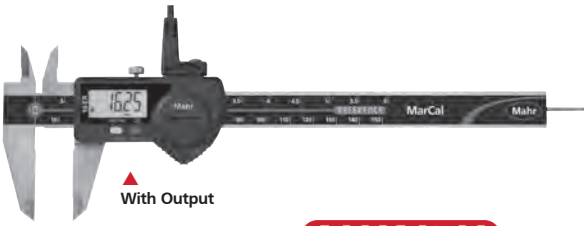
REFERENCE

DIN 862

PROMO PRICE
$117
LIST PRICE
$130

ORDER NO. 4103010

-10%



▲ With Output

REFERENCE

MarConnect

USB RS232C Digimatic

PROMO PRICE
$144
LIST PRICE
$160

ORDER NO. 4103014

-10%

Order No.	List Price	Promo Price	Measuring Range	Type	Error Limit *G*	Depth Rod		Friction Wheel
4103010	$130	**$117**	150 mm / 6 in	Without Output	0,03 mm / 0.001 in	•		
4103011	$130	**$117**				•		•
4103012	$130	**$117**					•	
4103013	$130	**$117**					•	•
4103205	$200	**$180**	200 mm / 8 in			•		
4103206	$200	**$180**				•		•
4103207	$300	**$270**	300 mm / 12 in		0,04 mm / 0.0015 in			
4103208	$300	**$270**						•
4103014	$160	**$144**	150 mm / 6 in	With Output	0,03 mm / 0.001 in	•		
4103015	$160	**$144**				•		•
4103018	$217	**$195**	200 mm / 8 in				•	
4103020	$340	**$306**	300 mm / 12 in		0,04 mm / 0.0015 in			
4103016	$160	**$144**	150 mm / 6 in		0,03 mm / 0.001 in		•	
4103017	$160	**$144**					•	•
4103019	$217	**$195**	200 mm / 8 in				•	•
4103021	$340	**$306**	300 mm / 12 in		0,04 mm/ 0.0015 in			•

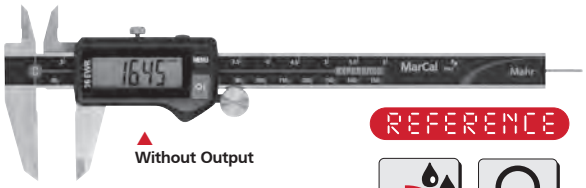
Note: resolution is 0,01 mm / 0.0005 in for all calipers

The MarCal 16 EWR features a new ergonomic design with lapped guideways and larger display. This digital caliper offers IP67 protection against dust, coolants and lubricants, extended three year battery life, and an innovative zero reference system, which automatically stores the zero position for further measurements. Available for next day delivery.

PROMO PRICE
$155
LIST PRICE
$185

ORDER NO. 4103301

-15%



▲ **Without Output**

REFERENCE

IP67

PROMO PRICE
$187
LIST PRICE
$221

ORDER NO. 4103064

-15%

▲ **With Output**

REFERENCE

IP67 | MarConnect: USB, RS232C, Digimatic

Order No.	List Price	Promo Price	Measuring Range	Type	Error Limit *G*	Depth Rod		Friction Wheel
4103300	$185	**$155**	150 mm / 6 in	Without Output	0,03 mm / 0.001 in	•		
4103302	$185	**$155**					•	
4103301	$185	**$155**				•		•
4103303	$185	**$155**					•	•
4103304	$245	**$208**	200 mm / 8 in			•		
4103305	$245	**$208**				•		•
4103306	$360	**$306**	300 mm / 12 in		0,04 mm / 0.0015 in			
4103307	$360	**$306**						•
4103064	$221	**$187**	150 mm / 6 in	With Output	0,03 mm / 0.001 in	•		
4103066	$221	**$187**					•	
4103065	$221	**$187**				•		•
4103067	$221	**$187**					•	•
4103068	$256	**$217**	200 mm / 8 in				•	
4103069	$256	**$217**					•	•
4103070	$383	**$325**	300 mm / 12 in		0,04 mm / 0.0015 in			
4103071	$383	**$325**						•

Note: resolution is 0,01 mm / 0.0005 in for all calipers

Micromar 40 ER Digital Micrometer

The Micromar 40 ER is a micrometer that incorporates an extra large display that is easy-to-read, a reference system that retains the zero position setting and a lock feature to prevent user error.

REFERENCE

IP40

INTRODUCTORY PRICE

$199

ORDER NO. 4157010

Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force	Standard
4157010	40 ER	$199	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N	Factory Standard

Micromar 40 EWR Digital Micrometer

The Micromar 40 EWR micrometer, with IP65 protection, incorporates an extra large display, a reference system that retains the zero position setting, absolute reading for comparative measurements and a lock feature to prevent user error.

REFERENCE

IP65

ABS System

INTRODUCTORY PRICE

$260

ORDER NO. 4157011

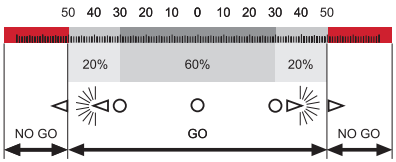
Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force	Standard
4157011	40 EWR	$260	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N	Factory Standard
4157012		$360	25 mm - 50 mm / 1 in - 2 in					
4157013		$445	50 mm - 75 mm / 2 in - 3 in		3 µm			
4157014		$499	75 mm - 100 mm / 3 in - 4 in					

The NEW Micromar 40 EWR micrometer with data output incorporates an extra-large display, a reference system that retains zero position setting and lock feature to prevent user error. It also incorporates new MarConnect data output where data collection is selected by cable – either USB, RS-232C, or Digimatic.

NEW

INTRODUCTORY PRICE
$340
ORDER NO. 4157000

▲ **Shown with optional stand 41 H**



Order No.	Model	List Price	Measuring Range	Resolution	Error Limit	Spindle Thread Pitch	Measuring Force
4157000	40 EWR	$340	0 - 25 mm / 0 - 1 in	0,001 mm / 0.00005 in	2 µm	0,5 mm	5 N - 10 N
4157001		$405	25 mm - 50 mm / 1 in - 2 in				
4157002		$530	50 mm - 75 mm / 2 in - 3 in		3 µm		
4157003		$585	75 mm - 100 mm / 3 in - 4 in				
4157004		$765	100 mm - 125 mm / 4 in - 5 in		6 µm		
4157005		$789	125 mm - 150 mm / 5 in - 6 in				
4157006		$815	150 mm - 175 mm / 6 in - 7 in		7 µm		
4157007		$835	175 mm - 200 mm / 7 in - 8 in				

Millimar C 1700 PC Gaging Computer

The Millimar C 1700 PC is a small but powerful PC based gaging computer with Mahr Cockpit Software preloaded and ready to begin providing simple and complex measurement solutions. With its 250 mm / 10 in touch screen display, the system is easy to set up and use at the point of part manufacture.

INTRODUCTORY PRICE
$2995
ORDER NO. 5312801

Order No.	Model	Introductory Price	Display	Range of Analog Display
5312801	C 1700 PC	$2995	Vertical Bar Graph, Horizontal Bar Graph, Analog Display or Round Scale, Digital Display Any combination of display types can be chosen for each feature.	± 10000 µm, ± 5000 µm, ± 2000 µm, ± 1000 µm, ± 500 µm, ± 200 µm, ± 100 µm, ± 50 µm, ± 20 µm, ± 10 µm

Millimar Cockpit Measuring Software

Millimar Cockpit Software is Mahr's powerful MarWin based gaging computer software. Easily create customer-gaging equations through its easy-to-use configurator or simply select from a tool box of preprogrammed measuring tasks. Use with MarWin gaging modules to take inputs from LVDT or pneumatic probes and control remote devices with I/O modules. Basic classification, various output modes and measuring sequencing is included.

INTRODUCTORY PRICE
$995
ORDER NO. 5312800

Order No.	Model	Introductory Price	Display
5312800	Cockpit	$995	Vertical Bar Graph, Horizontal Bar Graph, Analog Display or Round Scale, Digital Display Any combination of display types can be chosen for each feature.

Millimar N 1701 USB

USB Connecting Module

Order No.	5331130
Introductory Price	$170
Data Interface	RS485
Current Supply	430 mA

Millimar N 1701 PS

Power Supply Module

Order No.	5331133
Introductory Price	$235
Data Interface	RS485
Current Supply	2000 mA
Energy Supply	30 V/115 V; 50/60 Hz

Millimar N 1702 M Module for Inductive Probes

Order No.	5331120
Introductory Price	$475
Resolution	0,1 µm/ 5 µin
Measuring Range, Inductive Probe	± 2000 µm, ± 5000 µm / ± 0.078 µin, ± 0.197 µin
Compatibility	Mahr, Mahr 1340, Mahr half-bridge, Mahr LVDT, Mahr VLDT
Data Transmission Rate	4189 baud
Error Limit	0.3 % (min. 0,2 µm)

Millimar N 1704 I/O

I/O Module

Order No.	5331134
Introductory Price	$330
Data Interface	RS485
Current Consuption	70 mA
Control Inputs	4 inputs, 10 –30 V
Control Outputs	4 outputs, 10 – 30 V 1 amp per channel, ESD protected, short-circuit proof

Millimar N 1701 M PF-2500/5000

Module for Airtooling

Order No.	5331155
Introductory Price	$795
Compatibility	Mahr Federal 2500:1 and 5000:1
Measuring Range	± 76,5 µm / ± 0.0015 µin
Error Limit	0.5-1%

Note: Requires filter/regulator kit below

Accessories

Order No.	2258471	4102058
Introductory Price	$294	$147
Item	Air Filter Regulator Kit for up to 3 Air Modules	Foot Switch to Trigger Data Transmission

Digimar 817 CLM Height Measuring Instrument

The Digimar 817 CLM offers a wide range of measurement applications in both 1D and 2D, including dynamic measurement functions with analog display such as MAX, MIN and MAX/MIN. Operation is easy, with self-explanatory ISO standard icons, operator prompts and menus in several different languages.

▲ **Optional Accessory for Squareness Checks**

PROMO PRICE
$6,584
LIST PRICE
$8,230

ORDER NO. 4429010

-20%

Order No.	4429010	4429011	4429012
List Price	$8,230	$8,750	$15,610
Promo Price	**$6,584**	**$7,000**	**$12,488**
Measuring Range	0 - 350 mm / 0 - 14 in	0 - 600 mm / 0 - 24 in	0 - 1000 mm / 0 - 40 in
Range of Application	520 mm / 20.47 in	770 mm / 30.31 in	1170 mm / 46.06 in
Resolution	0,01 mm, 0,005 mm, 0,001 mm, 0,0005 mm, 0,0001 mm / 0.001 in, 0.0005 in, 0.0001 in, 0.00005 in, 0.00001 in		
Error Limit	(1,8 + L/600) L in mm		
Repeatability: Bore	1 µm		
Repeatability: Plane	0,5 µm		
Perpendicularity Error in µm	≤5 µm	≤6 µm	≤10 µm
Operating Time Max.	Up to 12 hours		
Measuring Force	1.0 +/–0.2 N		
Permissible Relative Air Humidity Non-Condensed	65%		
Working Temperature	20 ° C / 68 ° F		
Operating Temperature	10 ° C - 40 ° C / 50 ° F - 104 ° F		

▲ **Digimar Probe Accessory Set**

Order No.	4429018	4429019
List Price	$1,170	$1,690
Promo Price	**$936**	**$1,352**
Probe Set	817 ts2	817 ts1

Millimar C 1200 Compact Amplifier

Millimar compact amplifiers are easy to use and allow users to view analog scale, digital readout, or both. These evaluation instruments are highly accurate and insensitive to environmental influences.

PROMO PRICE
$1,332
LIST PRICE
$1,480

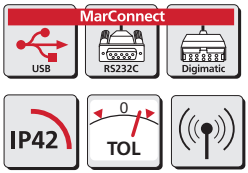
ORDER NO. 5312010

-10%

New Features

- Dynamics
- Asymetric Tolerances
- Lock out

Order No.	5312010
List Price	$1,480
Promo Price	**$1,332**
Digital	± 5000 µm / ± 0.194 µin
Display Range Analog	± 5000 µm, ± 2000 µm / ± 0.19 µin, ± 0.07 µin ± 1000 µm, ± 300 µm / ± 0.03 µin, ± 0.01 µin ± 100 µm, ± 30 µm / ± 0.003 µin, ± 0.001 µin ± 10 µm, ± 3 µm / ± 0.0003 µin, ± 0.0001 µin
Resolution	10 µm, 1 µm, 0,1 µm / 100 µin, 10 µin, 5 µin



Millimar P2004 M Inductive Probe

Robust construction and precise frictionless ball bearing provide high performance.

PROMO PRICE
$340
LIST PRICE
$425

ORDER NO. 5323010

-20%

Order No.	5323010
List Price	$425
Promo Price	**$340**
Product	P2004 M
Measuring Range	± 2 mm / ± 0.078 in
Measuring Force	0.75 N
Repeatability f_w	0,1 µm
Hysteresis f_u	0,5 µm

▲ **With 8 mm diameter**

Pocket Surf® IV The Portable Surface Roughness Gage

The Pocket Surf IV is simple to use and easy to read, displaying measurement results of Ra, Rz, or Rmax at a glance. This portable surface finish gage employs Mahr's unique MarConnect universal interface which allows for USB, RS-232 or digimatic output of data by choosing the right cable.

PROMO PRICE
$2,125
LIST PRICE
$2,500

ORDER NO. 2191800 & 2191802

-15%

Order No.		2191800	2191802
List Price		$2,500	$2,500
Promo Price		**$2,125**	**$2,125**
Traverse Length (Nominal)	R_a/R_y	2,0 mm / 0.075 in 3,5 mm / 0.135 in	
	$R_a/R_z/R_{max}$	5,0 mm / 0.195 in	
Evaluation Length	R_a/R_y	0,8 mm / 0.030 in 2,4 mm / 0.090 in	
	$R_a/R_z/R_{max}$	4,0 mm / 0.150 in	
Number of Cutoffs/ Switch Position	R_a/R_y	1 3	
	$R_a/R_z/R_{max}$	5	
Traverse Speed		5,8 mm / 0.2 in per Second	
Cutoff		0,08 mm / 0.030 in 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. 2,500 Measurements, Depending on Frequency of Use and Output Option	
Operating Temperature		10°C to 45°C / 50°F to 113°F	
Storage Temperature		-20°C to 65°C / -4°F to 149°F	
Includes		EGH-1019: Probe, 90° , 10 µm Radius, PMD-90101 Certified Specimen, including Test Certificate	EGH-1026: Probe, 90° , 5 µm Radius, PMD-90101 Certified Specimen, including Test Certificate

Note: a Pocket Surf kit includes a Pocket Surf unit, general purpose probe, 3,2 µm/125 µin (nominal) reference specimen, 9 Volt battery, riser plate, and a fitted case

MarSurf M 400 Fast, Easy, Innovative - Wireless Connectivity between Drive and Controller

Both in the measuring room and production area, there is a need for surface evaluation requiring skidless tracing. This generally requires a higher degree of skilled operators, work alignment and time. The MarSurf M 400 has the necessary functions and features for the most demanding measurements, while being quick and easy to use. Wireless connectivity increases versatility and portability.

PROMO PRICE
$9,180
LIST PRICE
$10,180

ORDER NO. 6910404 & 691042

-10%

MarSurf M 400 C Fast, Easy, Innovative - Wired Drive and Controller

Order No.	6910404	6910412
List Price	$10,180	
Promo Price	**$9,180**	
Product	M 400	M 400 C
Measuring Principle	Stylus Method	
Probe	BFW Skidless System	
Measuring Range	+/- 250 µm (up to +/- 750 µm with 3x probe arm length)	
Profile Resolution	Measuring range +/- 250 µm: 8 nm Measuring range +/- 25 µm: 0,8 nm	
Filter According to ISO/JIS	Gaussian filter as per ISO 11562 Filter as per ISO 13565	
Number n of Sampling Length According to ISO/JIS	1 - 5	
Contacting Speeds	0,2 mm/s; 1,0 mm/s	
Measuring Force (N)	5 mN	
Weight Drive Unit	Approximately 0,9 kg	
Weight Measuring Instrument	Approximately 1,0 kg	
Surface Parameters	Over 50 surface parameters for R, P and W profiles according to current ISO/JIS or MOTIF standards (ISO 12085)	

WILLRICH PRECISION
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SALES@WILLRICH.COM

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Mahr

EXACTLY

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