MAHR SPOTLIGHTS



END OF YEAR PROMOTION

PROMOTION PRICES
EFFECTIVE THROUGH 12/31/2015





Scan for PDF version



MarConnect Integrated Wireless

► I 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.





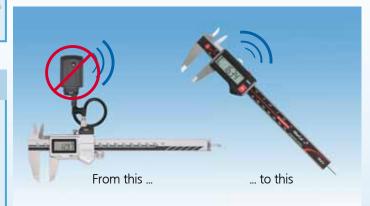
With the Integrated Wireless receiver, up to 8 measuring instruments can be connected per i-stick, therefore expensive transmitters or interface boxes are no longer required.

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.



An Indus

Calipers and Indicators v Eliminate Costly Ex And Reduce Yo



Expensive External Transmitters Are Eliminated

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.

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



Significant Savings Compared

Nireless Solutions!

to "Add-On" Wireless Solutions!

stry First

vith Built-In Transmitters ternal 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.





MarCal. Digital Caliper 16 EWRi with Integrated Wireless data transmission, Protection Class IP67

MarConnect Integrated Wireless - Wireless data transmission for the price of a data cable



With Integrated Wireless, you have a new Integrated Wireless data transmission system from Mahr for the price of a cable. Data acquisition with a Digital Caliper is now even simpler: 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 or via a virtual interface box to your PC system.

When using Integrated Wireless your data will be securely transferred. The sent data will be confirmed by a message appearing in the display of the measuring instrument, informing you whether the sent data has been transferred correctly, and/or whether you are in the reception range of the i-Stick.

 MarConnect Integrated Wireless. With the Integrated Wireless receiver up to 8 wireless measuring instruments can be connected per i-Stick.



MarCal. Digital Caliper 16 EWRi Starter Set includes i-Stick and MarCom Software



A Complete Wireless Data Collection System! Only \$299.00

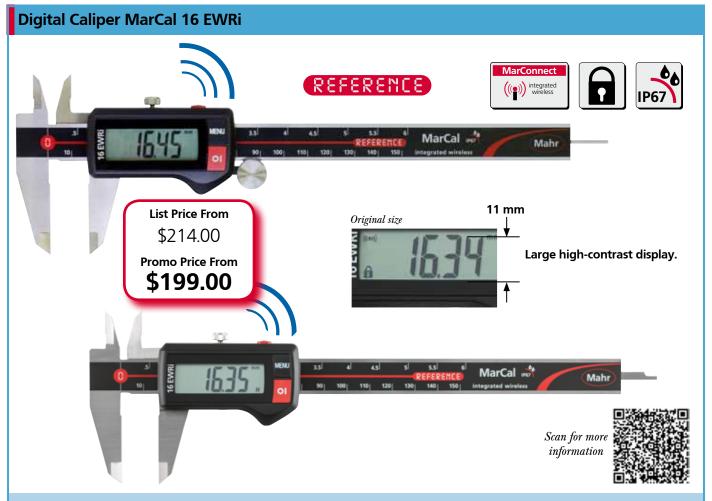
(Regularly \$373.00)

- i-Stick Wireless Receiver
- Functions: ON/OFF, RESET (Set display to zero), mm/inch, Reference-Lock/Unlock, Auto-ON/OFF, Hold, DATA
- Integrated wireless interface
- Immediate measurement due to the **Reference system**
- Life of the battery up to **3 years** (0.5 year when the wireless sender is activated)
- High contrast Liquid Crystal Display with 11 mm high digits
- Slide and beam made of hardened stainless steel with lapped guideways
- Includes i-Stick Wireless Receiver with MarCom Standard 5.0

	Measuring range		Resolution	'		Friction Wheel	Order no.	List price	Promo price
	mm	(inch)	mm / inch	21,5					
16 EWRi Starter set*	150	(6")	0.01 /0.0005"	•		•	2121610P	\$373.00	\$299.00
16 EWRi Starter set*	150	(6")	0.01 /0.0005"		•	•	2121611P	\$373.00	\$299.00

^{*} Starter set includes an i-Stick wireless receiver and MarCom Std 3.1





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

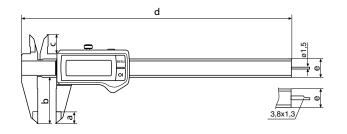
	suring nge (inch)	Resolution mm/inch		Depth rod	Friction wheel Order no.	List price	Promo price
150	(6")	0.01/ .0005 "	0.03 / .001"	• •	4103400P	\$214.00	\$199.00
150	(6")	0.01/ .0005 "	0.03 / .001 "	• •	• 4103401F	\$214.00	\$199.00
150	(6")	0.01/ .0005 "	0.03 / .001 "	•	4103402F	\$214.00	\$199.00
150	(6")	0.01/ .0005 "	0.03 / .001 "	•	• 4103403F	\$214.00	\$199.00
200	(8")	0.01/ .0005 "	0.03 / .001 "	•	4103404F	\$248.00	\$225.00
200	(8")	0.01/ .0005 "	0.03 / .001 "	•	● 4103405F	\$248.00	\$225.00
300	(12")	0.01/ .0005 "	0.04 / .0015"		4103406P	\$371.00	\$335.00
300	(12")	0.01/ .0005 "	0.04 / .0015"		● 4103407F	\$371.00	\$335.00





MarConnect. Software-Interface MarCom Professional 5.0

Technical Data



Dimensions					
mm	а	b	C	d	е
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

Order no.

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

4102220P \$159.00 **\$125.00**

List price

Promo price



Software MarCom Professional 5.0 Allows for up to 4 i-Sticks per computer **Software MarCom Standard 3.1**

4102212P \$394.00 **\$350.00 4102211P** \$115.00 **\$99.00**

Create Your Personal Data Collection Network

Basic - MarCom Standard



Advanced - MarCom Professional





MarConnect. Software-Interface MarCom Professional 5.0











- Directly transfer measuring values into Microsoft Office Excel® (from Verison 97), into SPC-Software using virtual interface box (MUX50 format) (Professional), a text file or key code
- Measured values from each device can be sent to a different column, table or folder in Excel
- USB hub is also suitable as a measuring instrument interface
- Clear portrayal of selected measuring devices with the aid of icons
- Freely definable / configurable measurement cycles
- Data transmission via Data-button on the measuring devices or on the data cable; via a PC, timer, keyboard, remote control or a foot switch connected to a USB interface
- Languages available: German, English, French, Italian, Dutch, Polish, Portuguese, Russian, Czech, Chinese
- System Requirements: Microsoft Windows 8, Microsoft Windows 7,
- USB interface from version 1.1, minimum 10 MB free hard disk space, Microsoft Office Excel® from version 97 onwards
- Includes Driver, Instruction manual

List Price \$394.00

Promo Price **\$350.00**

	MarCom Professional 5.0
Number of connected wireless receivers i-Stick	4
Number of connectable measuring instruments with Integrated Wireless	32
Number of devices or foot switches to be connected with a USB interface	127
Number of devices to be connected with a RS232C interface	2
Number of virtual Interface boxes (8 inputs)	4
Order no.	4102212P*
List Price	\$394.00
Promo price	\$350.00
* Includes Driver	





Digital Indicators MarCator 1086 Ri Resolution 0.01mm / 0.00005"











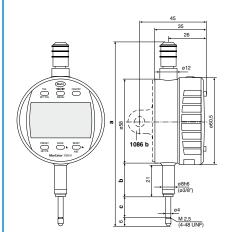




REFERENCE







in any zero point

List Price From \$699.00 **Promo Price From** \$599.00

OVER 15% SAVINGS



Dimensions

Meas. r	ange	а	b	c
mm	inch	mm	mm	mm
12.5	0.5"	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

Tec	nnica	al Data								
Measuring range		Resolution switchable	Span of error*	MarConnect ((a)) integrated wideless	* Measuring force	easuring Weight Mount force shan		Order no.	List price	Promo price
mm	inch		mm		N	g				
12.5	0.5"		0.005	•	0.65 - 0.90	130	8h6	4337624P	\$699.00	\$599.00
25	1"	0.0005 / 0.001 / 0.002 /	0.005	•	0.65 - 1.15	140	8h6	4337625P	\$764.00	\$649.00
50	2"	0.005 / 0.01 mm . 00002" / .00005" /	0.005	•	1.25 - 2.70	190	8h6	4337626P	\$1,100.00	\$935.00
100	4"	.0001"/.0002"/.0005"	0.005	•	1.60 - 3.50	235	8h6	4337627P	\$1,375.00	\$1,150.00
25	1"		0.005	•		140	8h6	4337628P	\$764.00	\$649.00

** To use the integrated wireless function an i-Stick Wireless Receiver is required, see page 5-58



Digital Indicators MarCator 1087 Ri with analog display and integrated wireless data transmission



















Functions:

Features

- 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

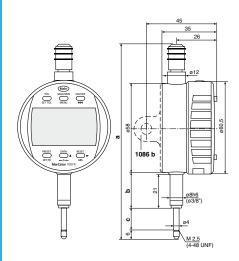
REFERENCE

List Price From \$779.00 **Promo Price From** \$699.00

Scan for more information



OVER 15% SAVINGS





Dimensions

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

Analog display

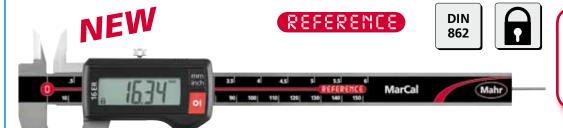
Re	eadir	ngs	Displ	ay r	ange
mm	/	inch	mm	/	inch
0.001	/	.00005	± 0.02	/	± .001
0.002	/	.0001	± 0.04	/	± .002
0.004	/	.0005	± 0.08	/	± .01
0.01	/	.001	± 0.2	/	± .02

Technical Data

in any zero point

Measuring range		Resolution Switchable	Span of error*	MarConnect ((o)) incognated wireless	Measuring force	Weight	Mounting shank	Order no.	List Price	Promo Price
mm I 2.5	(inch) (.5")	0.0005 / 0.001 / 0.002 / 0.005 / 0.01 mm .00002" / .00005" /	mm 0.005	•	N 0.65 - 0.90	g 140	8h6	4337663P	\$779.00	\$699.00
25	(1")	.0001" / .0002" / .0005"	0.005	•	0.65 - 1.15	150	8h6	4337665P	\$864.00	\$749.00

Digital Caliper MarCal 16 ER



List Price \$130.00

Promo Price **\$115.00**

Functions:

ON/OFF

RESET (Set display to zero) mm/inch

Reference-Lock/Unlock Auto-ON/OFF

• Immediate measurement due to the Reference system

- 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 Liquid Crystal Display 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

Meas ran	•	Resolution	Error limit G	Deptl		Friction wheel	Order no.	List price	Promo price
mm	inch	mm / <i>inch</i>	mm	Ø1.5					
150	6"	0.01 / 0.0005"	0.03	•			4103010P	\$130.00	\$115.00
150	6"	0.01 / 0.0005"	0.03	•		•	4103011P	\$130.00	\$115.00
150	6"	0.01 / 0.0005"	0.03		•		4103012P	\$130.00	\$115.00
150	6"	0.01 / 0.0005"	0.03		•	•	4103013P	\$130.00	\$115.00

Digital Caliper MarCal 16 ER with data output





Mahr



Features

	Measuring Resolution range mm inch mm / inch		Resolution	Error limit	Dept	h rod	Friction wheel	Order	List price	Promo price
								no.	price	price
mı	ım	incn	mm / <i>incn</i>	mm / <i>inch</i>	→ 01,5					
15	50	6"	0.01 / 0.0005"	0.03 / 0.001"	•			4103014P	\$160.00	\$140.00
15	50	6"	0.01 / 0.0005"	0.03 / 0.001"	•		•	4103015P	\$160.00	\$140.00
20	00	8"	0.01 / 0.0005"	0.03 / 0.001"		•		4103018P	\$217.00	\$180.00
30	00	12"	0.01 / 0.0005"	0.04 / 0.0015 "				4103020P	\$340.00	\$280.00
15	50	6"	0.01 / 0.0005"	0.03 / 0.001"		•		4103016P	\$160.00	\$140.00
15	50	6"	0.01 / 0.0005"	0.03 / 0.001"		•	•	4103017P	\$160.00	\$140.00
20	00	8"	0.01 / 0.0005"	0.03 / 0.001"		•	•	4103019P	\$217.00	\$180.00
30	00	12	0.01 / 0.0005"	0.04 / 0.0015"			•	4103021P	\$340.00	\$280.00















List Price \$185.00

Promo Price \$155.00 **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 R		Resolution	Error Limit	Depth	n rod	Friction Wheel	Order no.	List	Promo
	range			G					price	price
	mm	(inch)	mm / inch	mm	<u>⊿</u> <u>Ø1</u> 5					
16 EWR	150	(6")	0.01 /0.0005"	0.03	•			4103060P	\$185.00	\$155.00
16 EWR	150	(6")	0.01 /0.0005"	0.03		•		4103062P	\$185.00	\$155.00
16 EWR	150	(6")	0.01 /0.0005"	0.03	•		•	4103061P	\$185.00	\$155.00
16 EWR	150	(6")	0.01 /0.0005"	0.03		•	•	4103063P	\$185.00	\$155.00

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

















Promo Price From \$185.00



• 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

Webcode 2555				edsa.i.i.g salades .e. iiisiaeedsa.eee					
		suring nge	Resolution	Error Limit	Depth Rod	Friction Wheel	Order no.	List price	Promo price
	mm	(inch)	mm / inch	mm / inch				piles	Piles
16 EWR 16 EWR 16 EWR 16 EWR 16 EWR 16 EWR 16 EWR	150 150 150 150 200 200 300 300	(6") (6") (6") (6") (8") (8") (12") (12")	0.01 / 0.0005" 0.01 / 0.0005"	0.03 / 0.001" 0.03 / 0.001" 0.03 / 0.001" 0.03 / 0.001" 0.03 / 0.001" 0.04 / 0.0015" 0.04 / 0.0015"	•	•	4103064P 4103066P 4103065P 4103067P 4103068P 4103069P 4103070P 4103071P	\$221.00 \$221.00 \$221.00 \$221.00 \$256.00 \$256.00 \$383.00 \$383.00	\$185.00 \$185.00 \$185.00 \$185.00 \$210.00 \$210.00 \$299.00 \$299.00







Digital Indicators 1075 R















List Price From \$192.00 Promo Price From \$165.00

OVER 15% SAVINGS



Features

Functions:

ON/OFF RESET (Set display to zero) mm/inch Reversal of counting direction PRESET (for entering a numerical value) DATA (data transmission with a data connection cable) LOCK-Function: Individual buttons can be locked Auto-OFF (selectable)

- Immediate measurement due to the Reference system
- Max measuring speed 1.5 m/sec (60"/sec)
- MarConnect Data output:choose either
 - USB
 - OPTO RS232C
 - Digimatic
- High contrast Liquid Crystal Display with 12 mm high digits
- Operating temperature 10-40°C
- Class of protection IP52 according to IEC 60529

Supplied with:

Battery, Operating

Operating instructions

Reference System - Just set once to zero

The new Digital Indicators 1075 R 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.

Technical Data Measuring range Resolution Span of error G * Measuring Weight Order no. List price Promo force price (inch) Ν mm inch mm mm g 12.5 (.5'')0.01 0.0005" 0.020 0.5 180 \$192.00 4336010P \$165.00 12.5 (.5'')0.005 0.0001" 0.015 0.5 1 180 4336020P \$260.00 \$220.00 12.5 0.001 0.00005" 0.005 0.5 180 (.5")4336030P \$317.00 \$285.00 * in any zero point



Millimar C 1200 Compact amplifier













Features

Functions:

- ON/OFF
- mm/inch
- Reversal of the counting direc-
- Measuring range selection
- TOL (enter tolerance limit values)
- PRESET (allows the entry of any value using set buttons)
- Factor (adjustable)
- DATA (data transmission when connected with a data connection cable)
- · High resolution and high contrast color display

- The display can be continiously inclined for the ideal field of vision
- Simple to operate
- · Can be operated with batteries or from an AC power source
- When battery powered the C 1200 is fully portable
- Compact housing
- Wall mounting is also possible
- For single Mahr probe input
- Measuring combination +A, -A

Supplied with:

Operating Instructions and AC power supply adapter.

Technical data

 μ **m** mm Inch **Digital Display** Up to ±5000 μm Up to ±5.00 Up to ±0.194" range ±0.19", ±0.07", ±0.03", ±5000 μm, ±2000 μm, ±1000 μm, ± 5 , ± 2 , ± 1 , ± 0.3 , Analog display ±300 μm, ±100 μm, ±30 μm, $\pm 0.1, \pm 0.03,$ ±0.01", ±0.003", ±0.001", range ±10 μm, ±3 μm ±0.01, ±0.003 ±0.0003", ±0.0001" 0.0001", 0.00001", **Resolution:** 200 μm, 100μm, 20 μm, 10 μm 0.01, 0.001, digital 2 μm, 0.2 μm, 0.1 μm 0.0001 0.000005"

Introductory Price \$1,400.00



Wall mountable



Adjustable display tilt from 0° through 90°









Order no.

	Order no.	Introductory price
C 1200	5312010	\$1,400.00

For appropriate inductive probes please refer to the 7.0 Millimar section of the "Dimensional Metrology Catalog"

Probe Accessories

	Order	List	Promo
	no.	Price	price
P2004 M ±2mm Probe 8mm P1318 -0.3 to 1mm lever probe	5323010P	\$407.00	\$325.00
	5313180P	\$1,020.00	\$850.00

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.





Scan for more information







Comfort to operate all measurement functions with the function keys





817 CLM - 2D 0 - 350 mm





i

For further detailed information see:

www.mahr.com WebCode 12369-8298

817 CLM - 2D 0 - 600 mm **817 CLM - 2D** 0 - 1000 mm

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" / 0.0000	05" / 0.00001"	
Measuring error*	μ m		1.8+L/600 (L in mm))	
Quick Mode	SPACE	•	•	•	
2-D	L ₂D	•	•	•	
Motorized measuring carriage		•	•	•	
Bore diameter	(4)	•	•	•	
Max-Min	=	•	•	•	
Tolerance monitoring	TOL	•	•	•	
Perpendicularity / Straightness measurement		•	•	•	
Measuring programs	PROG	40	40	40	
Temperature compensation		•	•	•	
Air bearings		•	•	•	
Integrated USB memory		•	•	•	
Data interface		RS232	RS232	RS232	
USB printer interface		•	•	•	
Order no.		4429010P	4429011P	4429012P	
List price		\$7,900.00	\$8,400.00	\$15,000.00	
Promo price		\$6,320.00	\$6,720.00	\$12,000.00	
* At 20°C (68° F) 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

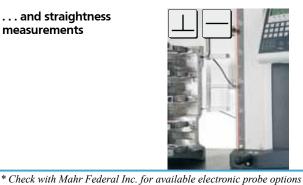
Measuring program . . .

... for repetitive measurements / serial components



Perpendicularity (with optional probes*) . . .

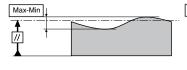
... and straightness measurements

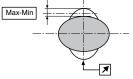


Dynamic measuring functions



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





· Parallel deviation Roundness deviation

Digimar. Probe Accessory Sets for 817 CLM / 816 CL

Probe Set 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 Se		Shaft length	Mount
consists of	f:	mm	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

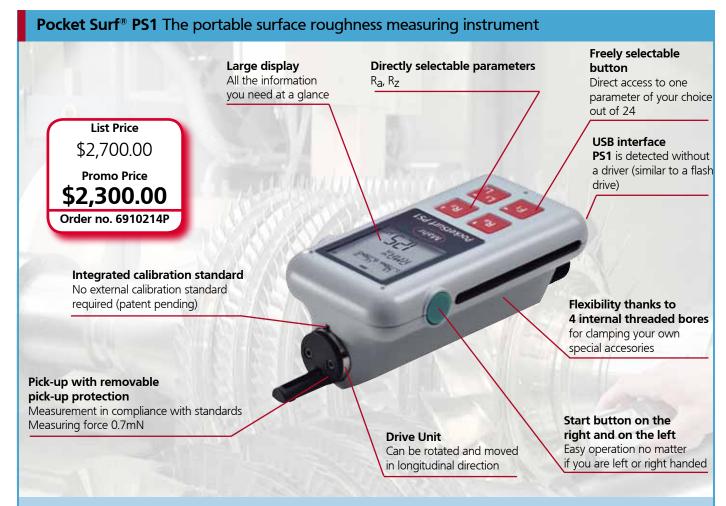


817 ts1



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

Probe Set	Order no.	List Price	Promo Price
817 ts1	4429019P	\$1,610.00	\$1,413.00
817 ts2	4429018P	\$1,110.00	\$972.00



Your Benefits

Saves you time and money

Ease of operation means:

- No training: save time
- Switch on and measure
- 3 parameters directly at the press of a button

Reliable Measurement

- · With integrated calibration standard
- Error free operation thanks to standards compliance settings
- Automatic cut-off selection
- Evaluation possible using MarSurf XR 20 evaluation software or MarSurf XR 20 unit

Pocket Surf® PS1 Standard

The Pocket Surf PS1 comes in a complete set. Thanks to the carrying case, you always have your surface roughness measuring instrument with you as you pass through the production floor. Quick and reliable on-the-spot measurements ensure your quality requirements are met during the production process or incoming goods inspection.

- Pocket Surf PS1 base unit
- · Drive unit
- 1 standard pick-up, comforms to standards
- Integrated battery
- Roughness standard integrated into casing
- · Height adjustment accessory
- Pick-up protection
- Charger / mains adapter
- Operating instructions
- Carrying case with shoulder strap and belt attachment
- USB cable
- Mahr Calibration Certficate

Order no.	List Price	Price
6910214P	\$2,700.00	\$2,300.00

Optional accessories

80mm (3.15in) pick-up extension, pick-ups from 3mm (0.118in) dia. measurements in bores, offset pick-up, groove pick-up, gear flank pick-up, adapter for transverse tracing, **MSP2** printer with connection cable (**MarConnect**), vee-block for measurements on end faces, mounting device for measuring stand

ST-D / ST-F / ST-G. PC-Software PS1 Explorer for documentation and records.



MarVision. Stereo-Zoom Microscope SM 150/SM 160



- High quality optics for light intensive and sharp three-dimensional images
- Continuously variable magnification with adjustable zoom lens
- Focusing with an ergonomic hand wheel, mounted either side, ideal for either a left or right handed operator
 Prism head tilted to 45° and rotatable through 360°: with the
- Prism head tilted to 45° and rotatable through 360°; with the dioptric adjustment
- Integrated incident and transmitted illumination, continuously variable (only with SM 150 / SM 151)

Technical Data

		SM 150	SM 160
Base dimensions	mm	260 x 200	230 x 230
Order no.		4245061P	4245063P
List price		\$869.00	\$1,375.00
Promo price		\$825.00	\$1,300.00

Scan for more information



Accessories for Microscopes see Dimensional Metrology catalog, Chapter 18

MarVision MM 200. Measuring Microscope

Features

Measuring Microscope

- High quality optics for light intensive and sharp threedimensional images
- Zoom lenses with continuous variable magnification and/or fixed lenses
- Focusing with an ergonomic hand wheel, mounted either side, ideal for either a left or right handed operator
- Prism head tilted to 45°; with dioptric adjustment
- LED ring light, dimmable
- LED transmitted light, dimmable
- Sturdy granite base
- Stable XY table precision mounted

Supplied with:

Microscope, variable zoom (8-40x) ocular 10x with cross line reticules, 2 digital micrometer heads, 50mm (2"), illumination box, with test certificate, operating instructions



Digital Micrometer Head

Functions:

Zero setting, PRESET (enter a numerical value), mm/inch, Absolute/Relative measurement

- High contrast LCD with 6mm (0.23") high digits
- Bezel can be rotated through 270°
- Data output via RS232C or USB

Note: Also available without Micrometer Heads

Technical Data

	Measuring range X / Y	mm/ in	50 / 50 / 2" / 2"
	Measuring table dimensions	mm/ in	150 x 150 / 3" x 3"
	Illumination		LED Incident and transmitted light, individually adjustable
	Interfaces		USB or Opto RS232
	Dimensions* H x W x D	mm/ in	535 x 410 x 470 / 21" x 16" x 18.5"
1			

 Order no.
 4246006P

 List price
 \$7,975.00

 Promo price
 \$7,775.00

* Measuring table is centered

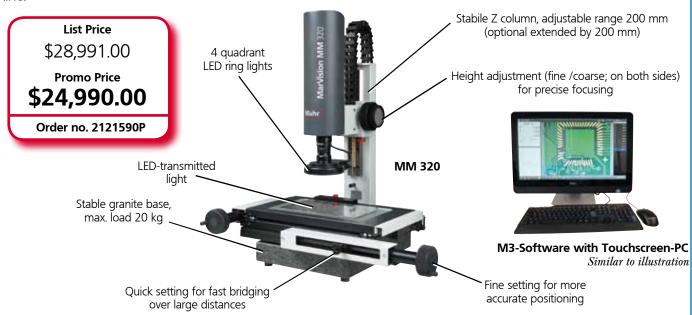
Scan for more information



(Mahr)

MarVision. Workshop Measuring Microscope MM 320 with image processing

Manual 2D-Measuring Microscope with either fixed, zoom or motorized zoom lens and an automatic edge recognition for simple and precise measurements of bores, angles and distances. Ideal for use on the production



Objective / lens Magnification		Zoom 0.7x - 4.5x
Measuring range X/Y	mm	200 / 100
Z travel	mm	200
Measuring table dimensions	mm	370 x 210
Max. table load (max)	kg	20
Measuring system:		LED Incident and transmitted light. individually adjustable
- Resolution	mm	0.001
- MPE $E_1 X / Y$ in μ m (L in mm)		1.9 +(L/100)
- MPE E_2XY in μ m (L in mm)		2.9 +(L/100)
Working distance	mm	85
Max. height of test piece	mm	90
Illumination		built-in incremental measuring scale
Dimensions H x W x D	mm	700 x 650 x 550
Order no.		2121590P
List price		\$28,991.00
Promo Price		\$24,990.00

Features

M3-Software with Touchscreen-PC

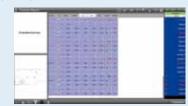
- 23" Touchscreen with keyboard and mouse
- Operated via the Multi-Touch on the monitor or via mouse/keyboard
- Large video image
- Customizable printouts
- Automatic edge detection even with low contrast parts

Additional options:

- Incident light (Order no. 4245300)
- Calibration standard incl. calibration certificate (Order no. 4246901)
- Extension of the Z-Axis, 200 mm (Order no. 4246051) Measuring system for Z-Axis
- Wide range of accessories
- DXF file integration
- Training
- Calibration and repair service



· Graphical presentation including dimensions



• Evaluation of nominal and actual values with tolerance specifications



- Creation and downloading DXF data
- Consigning tolerance limits
- Generate Overlays
- Summary of GO and NO GO

Further measuring ranges:

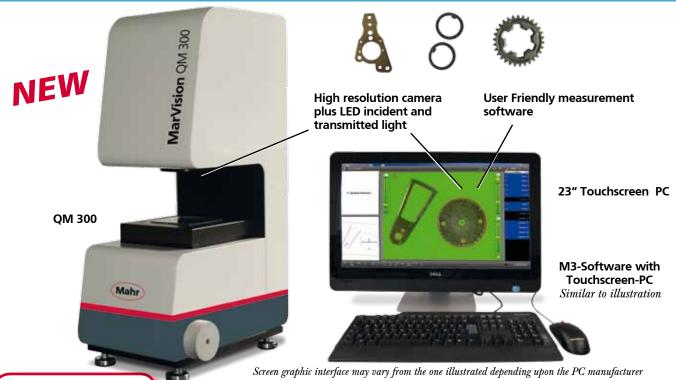
- 100 x 100 mm
- 250 x 170 mm
- 400 x 250 mm (Incl. Z-axis extensions)

Scan for more information





MarVision. Video Workshop Measuring Microscope MarVision QM 300 with M3 Software and touchscreen PC



List Price From \$27,000.00

Promo Price From \$22*,*900.00

Applications

• For measuring and / or the determination of geometric elements (points, lines, circles, distances, intersection etc.) via automatic edge detection. For example: punched and flexible parts, plastic components and electronic circuit boards.

Features

- Telecentric fixed lens
- Integrated USB color camera
- LED ring light: dimmable
- LED transmitted light
- Height adjustable measuring table
- Large, high contrast backlit color LCD display
- Automatic edge detection
- Automatic measurement of all features of a component within the image field
- Depth of focus approximately10mm (**0.4''**)
- DXF function: compares measurement with the CAD drawing
- Measurement and evaluation functions for points, lines, circles, angles, distances and intersecting straight lines. "Magic" function is a time saving feature which automatically recognizes the geometric pattern of data points
- Simply create a measuring program with the Teach-In mode
- Easy program sequence with on screen graphic guidance
- Lighting controls
- Operator prompts are available in several languages
- USB printer port

- USB port
- Updates can be obtained via a USB stick

Supplied with:

Measuring Microscope, operating instructions in a PDF file, test certificate and a dust cover

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Technical Data

Measuring range / image field	mm / in	32 x 24 / 1.25" x 1"	57 x 42 / 2.3" x 1.6"	96 x 72 / 3.8" x 2.8"
Height adjustment	mm / in		30 / 1.18"	
Measurement error E ₂		4.0+L/50 (L in mm)	4.5+L/50 (L in mm)	7.5+L/50 (L in mm)
Camera system			5 Megapixel USB 3	
Incident light			LED ring light	
Transmitted light			LED telecentric	
Dimensions QM 300, D x W x H	mm / in	330 x 230 x 580 / 13" x 9" x 23"	330 x 240 x 720 / 13" x 9.5" x 28.4 "	340 x 250 x 820 / 13.4" x 10" x 32.3"
Order no.		4247803P	4247804P	4247805P
List price		\$27,000.00	\$34,760.00	\$38,970.00
Promo price		\$22,900.00	\$29,900.00	\$32,900.00
Inch conversions are rounded				

► I DIMENSIONAL METROLOGY



Precision Gages



Precimar.Precision Length Metrology



MarSurf.Surface Metrology



MarForm. Form Metrology



MarGear. Gear Metrology



MarVision.Optical Metrology



MarShaft.Shaft Metrology



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