# MAHR® SPOTLIGHTS

9|2017



Promotion prices valid from September 1st through December 31st 2017

\* MARCOM PROFESSIONAL SOFTWARE INTERFACE FOR CONNECTING MEASURING INSTRUMENTS BY CABLE OR WIRELESS - NOW AVAILABLE TO DOWNLOAD FREE OF CHARGE - See page 13



# **SMAHRT METROLOGY**



#### WIRELESS DEVICES FOR MORE MEASURING CONVENIENCE

Mahr's new devices with Integrated Wireless transmitters are designed for user-friendly, practical and cost-effective use in your factory. They will make your measurement recording processes much faster and more efficient.



Mahr has enhanced its MarCal, Micromar and MarCator ranges with state-of-the-art patented technology.



#### These special measuring instruments:

- Have a transmitter directly integrated in the measuring instrument
- Are energy efficient and do not require a separate battery



#### BENEFIT FROM THESE ADVANTAGES:

| Data Link                               | Integrated Wireless   | Cable Monnection   |  |  |
|---|---|--|--|--|
| Range                                   | Max. 6 m  | Max. 2 m (without extension cable)   |  |  |
| Freedom of<br>Movement and<br>Operation | Fully autonomous measuring without restrictions   | Limited freedom of movement, especially at measuring stations with multiple measuring instruments  Risk of: - cable breaks, cable kinks - embrittlement from oil, etc. |  |  |
| Wear                                    | No risk of damage or wear   |  |  |  |
| Interface                               | 1 affordable i-Stick receiver for 8 measuring instruments (maximum 4 i-Sticks per PC) Free MarCom Professional Software interface | One cable is required for each measuring instrument Additional hardware interface must be purchased  |  |  |
| Safety                                  | Visual feedback of successful transmission on display of measuring instrument, or error message                                   | No feedback from transmission<br>Unplugged cables or cable breaks are not identified   |  |  |



#### Micromar 40 EWRi Digital Micrometer

Wireless data transmission capability is integrated within the NEW MarCal 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.



| Order No. | Model   | List Price | Measuring Range                 | Resolution | Error<br>Limit                       | Spindle<br>Thread Pitch | Measuring Force                             |                     |      |
|-----------|---------|------------|---------------------------------|------------|--------------------------------------|-------------------------|---|---------------------|------|
| 4157100   |         | \$349      | 0 - 25 mm / 0 - 1 in            |            |                                      |                         |   |                     |      |
| 4157101   | 40 EWRi | 40 EWRi    | 40 EWRi                         | 40 EWRi    | \$419 25 mm - 50 mm /<br>1 in - 2 in |                         |   |                     |      |
| 4157102   |         |            |                                 |            | 40 EVVRI                             | 40 EWRI                 | \$549 50 mm - 75 mm / 0,01 mm / 2 in - 3 in | 0,01 mm / 0.0005 in | 2 μm |
| 4157103   | 57103   |            | 75 mm - 100 mm /<br>3 in - 4 in |            |                                      |                         |   |                     |      |

### Micromar 40 EWRi Digital Micrometer Set



## \$1,900

**ORDER NO. 4157115** 

#### REFERENCE











| Order No. | Model   | List Price | Measuring<br>Range       | Resolution          | Number of<br>Micrometers | Spindle<br>Thread Pitch | Measuring Force |
|-----------|---------|------------|--------------------------|---------------------|--------------------------|-------------------------|-----------------|
| 4157115   | 40 EWRi | \$1900     | 0 - 100 mm /<br>0 - 4 in | 0,01 mm / 0.0005 in | 4                        | 0,5 mm                  | 5 N - 10 N      |

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.

\$336 LIST PRICE

**ORDER NO. 2121610P** 















| Order No. | List Price | Promo Price | Measuring Range | Resolution | Depth | Rod | Friction Wheel |
|-----------|------------|-------------|-----------------|------------|-------|-----|----------------|
| 2121610P* | \$373      | \$336       | 150 mm / 6 in   | 0,01 mm /  | •     |     | •              |
| 2121611P* | \$373      | \$336       | 150 mm / 6 in   | 0,0005 in  |       | •   | •              |

<sup>\*</sup> Starter set includes an i-Stick wireless receiver

| PROMO PRICE       |
|-------------------|
| <sup>\$</sup> 193 |
| LIST PRICE        |
| <sup>\$</sup> 214 |

ORDER NO. 4103400P











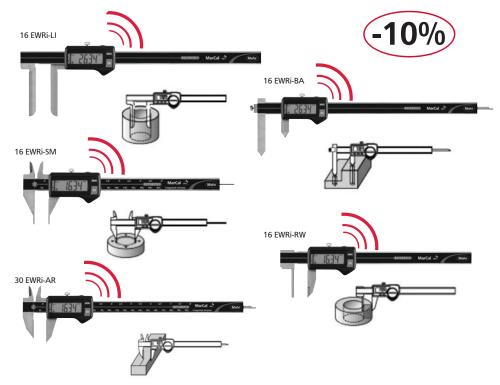
|           |            |             |                   |            |               | De         | eptn Ko | Friction vyneei |   |
|-----------|------------|-------------|-------------------|------------|---------------|------------|---------|-----------------|---|
| Order No. | List Price | Promo Price | Measuring Range   | Resolution | Error Limit G | DIN<br>862 | 1       | 7               |   |
| 4103400P  | \$214      | \$193       |                   |            |               | •          | •       |                 |   |
| 4103401P  | \$214      | \$193       | 150 mm / 6 in     |            |               | •          | •       |                 | • |
| 4103402P  | \$214      | \$193       | 150 111117 0 111  | 0,03 mm/   | •             |            | •       |                 |   |
| 4103403P  | \$214      | \$193       |                   | 0,01 mm /  | 0.001 in      | •          |         | •               | • |
| 4103404P  | \$248      | \$225       | 200 mm / 8 in     | 0.0005 in  |               | •          |         | •               |   |
| 4103405P  | \$248      | \$225       | 200 mm / 8 in     |            |               | •          |         | •               | • |
| 4103406P  | \$371      | \$335       | 300 mm / 12 in    |            | 0,04 mm /     |            |         |                 |   |
| 4103407P  | \$371      | \$335       | 300 111117 12 111 | .          | 0.0015 in     |            |         |                 | • |

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FALL SPOTLIGHTS N

# MARCAL- The New Wireless Caliper Standard Digital Calipers for Special Applications

Mahr offes a range of calipers for special applications featuring our state-of-the-art measuring system with Integrated Wireless. The range includes special calipers, universal calipers, and depth gages.



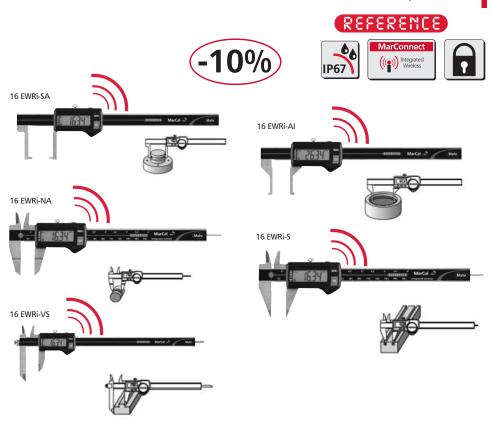
| Order No. | Model      | List Price | Promo<br>Price | Description                       | Measuring Range                     | Resolution               |
|-----------|------------|------------|----------------|-----------------------------------|-------------------------------------|--------------------------|
| 4103372P  | 16 EWRi-C  | \$399      | \$360          | Ceramic Outer Measuring Surfaces  | 0 - 150 mm / 0 - 6 in               |                          |
| 4103373P  | 16 EWRi-H  | \$475      | \$425          | Carbide Outer Measuring Surfaces  | 0 - 150 mm / 0 - 6 in               |                          |
| 4103382P  | 16 EWRi-AR | \$385      | \$346          | Scribing Caliper                  | 0 - 200 mm / 0 - 8 in               |                          |
| 4103376P  | 16 EWRi-SM | \$560      | \$500          | Caliper with Pointed Jaws         | 0 - 150 mm / 0 - 6 in               | 0.01 mm / 0.0005 in      |
| 4103384P  | 16 EWRi-BA | \$595      | \$535          | Caliper with Center Distance Jaws | 10 mm - 210 mm /<br>0.4 in - 8.3 in | 0,01 111111 7 0.0003 111 |
| 4103381P  | 16 EWRi-RW | \$630      | \$565          | Caliper for Wall Thickness        | 0 - 150 mm / 0 - 6 in               |                          |
| 4103385P  | 16 EWRi-LI | \$810      | \$730          | Caliper with Inner Blades         | 10 mm - 200 mm /<br>0.4 in - 8.3 in |                          |

Find out more in our catalog or on our website: www.mahr.com

Need some more information please contact our technical advisers at **1-800-343-2050** and they will be happy to answer any questions you may have.



## MARCAL- The New Wireless Caliper Standard



| Order No. | Model      | List Price Promo<br>Price |       | Description                         | Measuring Range                  | Resolution  |
|-----------|------------|---------------------------|-------|-------------------------------------|----------------------------------|-------------|
| 4103377P  | 16 EWRi-SA | \$749                     | \$675 | Caliper with Inward Pointed Tips    | 0 - 5.5 in / 0 - 140 mm          |             |
| 4103379P  | 16 EWRi-AA | \$645                     | \$580 | Caliper with Inward Pointed Anvils  | 0 - 6 in / 0 - 150 mm            |             |
| 4103378P  | 16 EWRi-SI | \$740                     | \$665 | Caliper with Outward Pointed Tips   | 0.8 in - 6.7 in / 20 mm - 170 mm | 0.0005 in / |
| 4103380P  | 16 EWRi-AI | \$705                     | \$635 | Caliper with Outward Pointed Anvils | 0.4 in - 6.3 in / 10 mm - 160 mm | 0,01 mm     |
| 4103374P  | 16 EWRi-NA | \$725                     | \$650 | Caliper with Narrow Jaws            | 0 - 6 in / 0 - 150 mm            |             |
| 4103375P  | 16 EWRi-S  | \$500                     | \$450 | Caliper with Pointed Jaws           | 0 - 6 in / 0 - 150 mm            |             |
| 4103383P  | 16 EWRi-VS | \$625                     | \$560 | Caliper with Offset, Moving Jaws    | 0 - 8 in / 0 - 200 mm            |             |

Find out more in our catalog or on our website: www.mahr.com

Need some more information please contact our technical advisers at 1-800-343-2050 and they will be happy to answer any questions you may have.

Mahr

#### 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.



| Order No. | List Price | Promo Price | Measuring Range       | Resolution              | Error Limit |
|-----------|------------|-------------|-----------------------|-------------------------|-------------|
| 4126533P  | \$620      | \$558       | 0 - 200 mm / 0 - 8 in | 0,01 mm / 0.0005 in     | 0,03 mm     |
| 4126534P  | \$775      | \$697       | 0 - 300 mm / 0 -12 in | 0,01 1111117 0.0003 111 | 0,04 mm     |

### MarCal 30 EWRi-N Digital Depth Gage

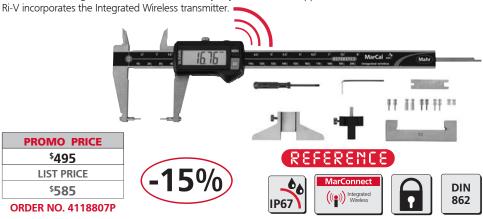
The 30 EWRi-N is a versatile depth gage with interchangeable contact for various depth applications.



| Order No. | List Price                        | Promo Price | Measuring Range      | Resolution          | Error Limit |
|-----------|-----------------------------------|-------------|----------------------|---------------------|-------------|
| 4126532P  | <b>126532P</b> \$779 <b>\$699</b> |             | 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



| Order No. | List Price | Promo Price | Measuring Range        | Resolution               | Depth Rod    | Wireless |
|-----------|------------|-------------|------------------------|--------------------------|--------------|----------|
| 4118807P  | \$585      | \$495       | 0-200 mm / 0-8 in      | 0,01 mm / 0.0005 in      | Rectangular  |          |
| 4118907P  | \$630      | \$535       | 0-200 111111 / 0-8 111 | 0,01 111111 / 0.0003 111 | Rectarigular | X        |

#### MarCal 30 EWRi Digital Depth Gage

The 30 EWRi digital depth gage's rigid design and versatile contact ensures reliable results.



| Order No. | List Price | Promo Price | Measuring Range         | Resolution          | Error Limit |
|-----------|------------|-------------|-------------------------|---------------------|-------------|
| 4126755P  | \$602      | \$511       | 0 -150 mm / 0 - 6 in    |                     | 0.02        |
| 4126754P  | \$649      | \$551       | 0 - 1200 mm / 0 - 8 in  | 0.01 / 0.0005 in    |             |
| 4126756P  | \$671      | \$570       | 0 - 1300 mm / 0 - 12 in | 0,01 mm / 0.0005 in | 0,03 mm     |
| 4126757P  | \$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 Integrated Wireless indicators which offer Integrated Wireless data transmission, the optimal solution for transmitting your measured values to a PC.



| PROMO PRICE   |
|---------------|
| \$315         |
| LIST PRICE    |
| \$ <b>371</b> |

**ORDER NO. 4337130P** 



### REFERENCE

















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

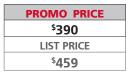
All indicators with 8 mm stem diameter



#### MarCator 1086 R/ 1086 Ri/ 1086 WR/ 1086 WRi Digital Indicators

Selectable Resolution

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 Integrated Wireless indicators which offer Integrated Wireless data transmission, the optimal solution for transmitting your measured values to a PC.



**ORDER NO. 4337620P** 





















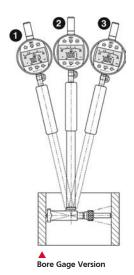


| Order No.  | Model    | List Price | Promo Price | Measuring Span   | Resolution                                    | Wireless | Wet Proof |
|------------|----------|------------|-------------|------------------|---|----------|-----------|
| 4337620P   | 1086 R   | \$459      | \$390       | 12,5 mm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

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 Integrated Wireless 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 ease of use.





| PROMO PRICE   |
|---------------|
| \$464         |
| LIST PRICE    |
| \$ <b>546</b> |

**ORDER NO. 4337660P** 



#### REFERENCE





















| Order No. | Model    | List Price | Promo Price | Measuring Range                 | Resolution                                     | Wireless | Bore Gage<br>Version |
|-----------|----------|------------|-------------|---------------------------------|--|----------|----------------------|
| 4337660P  | 1087 R   | \$546      | \$464       | 12,5 mm / 0.5 in                |  |          |                      |
| 4337661P  | 1087 R   | \$629      | \$534       | 25 mm / 1 in                    |  |          |                      |
| 4337670P* | 1087 ZR  | \$546      | \$464       | 12,5 mm / 0.5 in                |  |          |                      |
| 4337666P  | 1087 R   | \$999      | \$849       | 50 mm / 2 in 0,0005 mm, 0,001mm | 0,0005 mm, 0,001mm,                            |          |                      |
| 4337671P* | 1087 ZR  | \$629      | \$534       | 25 mm / 1 in                    |  |          |                      |
| 4337663P  | 1087 Ri  | \$593      | \$504       | 12,5 mm / 0.5 in                | 0,01 mm/ 0.00002 in,<br>0.00005 in, 0.0001 in, | X        |                      |
| 4337665P  | 1087 Ri  | \$598      | \$508       | 25 mm / 1 in                    | 0.0002 in, 0.0005 in                           | X        |                      |
| 4337667P  | 1087 Ri  | \$1,075    | \$913       | 50 mm / 2 in                    |  | Х        |                      |
| 4337662P  | 1087 BR  | \$629      | \$534       | 12.5 mm / 0.5 in                |  |          | Х                    |
| 4337664P  | 1087 BRi | \$696      | \$591       | 12,5 IIIII1 7 U.5 IN            |  | Х        | Х                    |

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



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.



| PROMO PRICE        |
|--------------------|
| <sup>\$</sup> 148  |
| LIST PRICE         |
| <sup>\$</sup> 164  |
| ORDER NO. 4102220P |





| Order No.                                    | 4102220P  |  |  |
|--|---|--|--|
| List Price                                   | \$164   |  |  |
| Promo Price                                  | \$148   |  |  |
| Includes                                     | USB Wireless Receiver for Mahr Measuring Instruments              |  |  |
| Channels                                     | 3   |  |  |
| Connectable Devices with Integrated Wireless | 8 per i-Stick   |  |  |
| Radio Frequency MHz                          | 2400  |  |  |
| Distance of Radio Wave                       | up to 6 m / 19.6 ft   |  |  |
| For Measuring Instruments                    | MarCal 16 EWRi / 30 EWRi<br>MarCator 1086 Ri / 1087 Ri / 1087 BRi |  |  |





Devices to be Connected with a USB Interface

Devices to be Connected with an RS232C Interface

Connectable USB Foot Switches

Virtual Interface Boxes (8 Inputs)





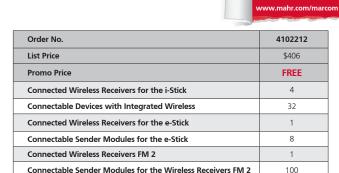
#### MarCom Professional 5.1 Software Interface

MarCom Professional 5.1 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.

> For free download

> > 100

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| PROMO PRICE   |
|---------------|
| FREE          |
| LIST PRICE    |
| \$ <b>406</b> |



#### 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.



| PROMO PRICE       |
|-------------------|
| <sup>\$</sup> 117 |
| LIST PRICE        |
| <sup>\$</sup> 130 |

**ORDER NO. 4103010P** 



| PROMO PRICE       |
|-------------------|
| <sup>\$</sup> 144 |
| LIST PRICE        |
| <sup>\$</sup> 160 |



#### REFERENCE



#### REFERENCE









|           |   |       |                   | _              |                        | Depth Rod |   | Friction Wheel |
|-----------|---|-------|-------------------|----------------|------------------------|-----------|---|----------------|
| Order No. | lo. List Price Promo Price Measuring Range Type Error Limit G |       | Error Limit G     | 1              | T                      | Z-        |   |                |
| 4103010P  | \$130   | \$117 |                   |                |                        | •         |   |                |
| 4103011P  | \$130   | \$117 | 150 mm / 6 in     |                |                        | •         |   | •              |
| 4103012P  | \$130   | \$117 | 130 11111 / 6 111 |                | 0,03 mm /              |           | • |                |
| 4103013P  | \$130   | \$117 |                   | Without Output | 0.001 in               |           | • | •              |
| 4103205P  | \$200   | \$180 | 200 mm / 8 in     |                | 0,04 mm /<br>0.0015 in | •         |   |                |
| 4103206P  | \$200   | \$180 | 200 mm / 8 m      |                |                        | •         |   | •              |
| 4103207P  | \$300   | \$270 | 300 mm / 12 in    |                |                        |           | • |                |
| 4103208P  | \$300   | \$270 | 300 mm / 12 m     |                |                        |           | • | •              |
| 4103014P  | \$160   | \$144 | 150 / 6 in        | 50 mm / 6 in   | 0,03 mm /<br>0.001 in  | •         |   |                |
| 4103015P  | \$160   | \$144 | 150 mm / 6 in     |                |                        | •         |   | •              |
| 4103018P  | \$217   | \$195 | 200 mm / 8 in     |                |                        |           | • |                |
| 4103020P  | \$340   | \$306 | 300 mm / 12 in    |                | 0,04 mm /<br>0.0015 in |           |   |                |
| 4103016P  | \$160   | \$144 | 150 mm / C in     | With Output    |                        |           | • |                |
| 4103017P  | \$160   | \$144 | 150 mm / 6 in     |                | 0,03 mm /<br>0.001 in  |           | • | •              |
| 4103019P  | \$217   | \$195 | 200 mm / 8 in     |                | 0.001111               |           | • | •              |
| 4103021P  | \$340   | \$306 | 300 mm / 12 in    |                | 0,04 mm/<br>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       |
|-------------------|
| <sup>\$</sup> 155 |
| LIST PRICE        |
| <sup>\$</sup> 185 |

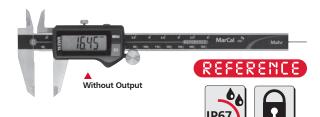
ORDER NO. 4103301P



| PROMO PRICE       |
|-------------------|
| <sup>\$</sup> 187 |
| LIST PRICE        |
| <sup>\$</sup> 221 |

**ORDER NO. 4103064P** 







### REFERENCE









| Order No. | List Price | Promo Price | Measuring Range   | Measuring Range Type I |                        | Depth | Rod | Friction Wheel |
|-----------|------------|-------------|-------------------|------------------------|------------------------|-------|-----|----------------|
| 4103300P  | \$185      | \$155       |                   |                        |                        | •     |     |                |
| 4103302P  | \$185      | \$155       | 150 mm / 6 in     |                        |                        |       | •   |                |
| 4103301P  | \$185      | \$155       | 150 11111 / 6 111 |                        | 0,03 mm /              | •     |     | •              |
| 4103303P  | \$185      | \$155       |                   | 16 EWR without         | 0.001 in               |       | •   | •              |
| 4103304P  | \$245      | \$208       | 200 mm / 8 in     | Output                 |                        | •     |     |                |
| 4103305P  | \$245      | \$208       | 200 11111 / 6 111 |                        |                        | •     |     | •              |
| 4103306P  | \$360      | \$306       | 300 mm / 12 in    |                        | 0,04 mm /<br>0.0015 in |       | •   |                |
| 4103307P  | \$360      | \$306       | 300 111117 12 111 |                        |                        |       | •   | •              |
| 4103064P  | \$221      | \$187       |                   |                        | 0,03 mm /<br>0.001 in  | •     |     |                |
| 4103066P  | \$221      | \$187       | 150 mm / 6 in     |                        |                        |       | •   |                |
| 4103065P  | \$221      | \$187       | 1301111170111     |                        |                        | •     |     | •              |
| 4103067P  | \$221      | \$187       |                   | 16 EWR with            |                        |       | •   | •              |
| 4103068P  | \$256      | \$217       | 200 mm / 8 in     | Output                 |                        |       | •   |                |
| 4103069P  | \$256      | \$217       | 200 Hill / 8 M    |                        |                        |       | •   | •              |
| 4103070P  | \$383      | \$325       | 300 mm / 12 in    |                        | 0,04 mm /              |       |     |                |
| 4103071P  | \$383      | \$325       | 300 Hill / 12 III |                        | 0.0015 in              |       |     | •              |

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

| . . . . . . . | . . . . . . . | . . . . . . | . . . . . . | . . . . . . |



#### μMaxμm® II Digital Comparator

The  $\mu$ Maxum II is a full-featured, economical digital comparator ideal for mechanical gage applications. The  $\mu$ Maxum 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 |
|-------------|
| \$340       |
| LIST PRICE  |
| \$401       |

ORDER NO. 2034101P



| Order No. | List Price | Promo Price | Model     | Range                | Stem<br>Diameter | Stem Length       |
|-----------|------------|-------------|-----------|----------------------|------------------|-------------------|
| 2034101P  | \$401      | \$340       | Standard  |                      |                  | 11,7 mm / 0.46 in |
| 2034103P  | \$401      | \$340       | Stariuaru |                      |                  | 38,0 mm / 1.50 in |
| 2034201P  | \$501      | \$425       |           | ±1,00 mm / ±0.040 in | 0.375 in         | 11,7 mm / 0.46 in |
| 2034203P  | \$501      | \$425       | Advanced  |                      |                  | 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       |
|-------------------|
| <sup>\$</sup> 170 |
| LIST PRICE        |
| \$201             |

**ORDER NO. 4336010P** 



| Order No. | List Price | Promo Price | Measuring Range  | Resolution            |
|-----------|------------|-------------|------------------|-----------------------|
| 4336010P  | \$201      | \$170       |                  | 0,01 mm / 0.0005 in   |
| 4336020P  | \$272      | \$230       | 12,5 mm / 0.5 in | 0,005 mm / 0.0001 in  |
| 4336030P  | \$331      | \$280       |                  | 0,001 mm / 0.00005 in |

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



#### Micromar 40 ER Digital Micrometer

The NEW 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.



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

### Micromar 40 EWR Digital Micrometer

The NEW Micromar 40 EWR is an IP65 micrometer that 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.



| Order No. | Model  | List Price | Measuring Range                 | Resolution                | Error<br>Limit | Spindle<br>Thread<br>Pitch | Measuring<br>Force | Standard         |
|-----------|--------|------------|---------------------------------|---------------------------|----------------|----------------------------|--------------------|------------------|
| 4157011   |        | \$260      | 0 - 25 mm / 0 - 1 in            |                           |                |                            |                    |                  |
| 4157012   |        | \$360      | 25 mm - 50 mm /<br>1 in - 2 in  | 0,001 mm /                | 2 μm           |                            |                    |                  |
| 4157013   | 40 EWR | \$445      | 50 mm - 75 mm /<br>2 in - 3 in  | 0.0001 mm /<br>0.00005 in | 3 µm           | 0,5 mm                     | 5 N - 10 N         | Factory Standard |
| 4157014   |        | \$499      | 75 mm - 100 mm /<br>3 in - 4 in |                           |                |                            |                    |                  |

### Multimar® 844 S Setting Device

The Multimar 844 S is a universal adjustable bore and ID/OD setting gage. With a large complement of jaws and ablility to be used vertically or horizontally, the 844 S provides an economical way of setting adjustable bore gages without master setting rings.



| Order No. | Model | List Price | Application Range for Inside Measurement From |
|-----------|-------|------------|---|
| 4503500   |       | \$955      | 0 - 400 mm / 0 - 15.7 in                      |
| 4503501   | 844 S | \$1,260    | 0 - 1150 mm / 0 - 45 in                       |
| 4503502   |       | \$1,740    | 0 - 2180 mm / 0 - 86 in                       |

| Order No. | Model   | List Price | Product Name   |
|-----------|---------|------------|--|
| 4503510   | 844 Sp  | \$955      | T-shaped Gage Blocks for Measuring Depth to 40 mm / 1.57 in            |
| 4503511   | 844 Sph | \$210      | Riser Block 40 mm / 1.8 in for Extended Measuring Depth                |
| 4474080   | 844 Neb | \$305      | Adjustable Bridge for Measuring Range 18 mm - 250 mm / 0.7 in - 9.8 in |
| 4470095   | 844 em  | \$165      | Measuring Jaw for Holder 420 H   |
| 4503512   | 844 Sf  | \$365      | Foot for Vertical Insert including Screws and 2 Clamps                 |
| 4474082   | 844 Neb | \$1,280    | Adjustable Bridge for Measuring Range 18 mm - 800 mm / 0.7 in - 9.8 in |

# **Master Discs**

# **Manufactured by Mahr**

**GUARANTEED TO MEET AGD SPECS OR IT'S FREE!!** 

#### **FEATURES**

- ► The metrology laboratory in Providence, RI is ranked as one of the world's finest
- ► All measurements are traceable to the standards of the United States
- Grand Masters/Primary standards used in our measurement center have been certified by NIST
- Calibration system is certified to ISO 17025
- ▶ Our accreditation body is NVLAP. Lab Code 200605-0







Order any XX, steel, master ring or disc sized from 6,3 mm -100 mm (0.250 in - 4.0 in) and take 15% off of the current list price. Use the code MAHRMASTER to receive your discount. This offer is valid through the end of this promotion.

#### The Mahr Inc. Setting Master Guarantee

When you purchase your setting master from Mahr Inc. with certificate of size, Mahr guarantees that your master ring, plug or disc will be delivered to you within the tolerance grade specified. This guarantee assures your master ring, plug or disc will not require recertification at your incoming inspection. Should the master ring, plug or disc be out of specification within 30 days of receipt, and verified by Mahr, the company will repair or replace the master ring, plug or disc and issue full credit for its purchase price.

Guaranteed to meet spec or it's FREE\*

\* The purchaser may not reject products unless their measurements exceed published tolerances by more than their uncertainty of measurement. In all cases, Mahr Federal Inc. inspection will be the final accepted measurement.

#### Digimar 816 CL Height Measuring Instrument

The Digimar 816 CL height gage provides highly accurate measurements without complicated procedures. A robust design and user-friendly operation are combined with advanced features and functionality to improve dimensional measurement on the shop floor or in the lab.



| PROMO PRICE         |  |
|---------------------|--|
| \$5,150             |  |
| LIST PRICE          |  |
| <sup>\$</sup> 5,730 |  |

**ORDER NO. 4429030P** 





Ideal for fast, in production part inspection









| Order No.  | 4429030P                                  | 4429031P               |  |
|--|---|------------------------|--|
| List Price   | \$5,730                                   | \$6,160                |  |
| Promo Price  | \$5,150                                   | \$5,545                |  |
| Measuring Range                                    | 0 - 350 mm / 0 - 14 in                    | 0 - 600 mm / 0 - 24 in |  |
| Range of Application<br>FromTo                     | 540 mm / 21.26 in                         | 770 mm / 30.31 in      |  |
| Resolution   | 0,01 mm, 0,001 mm / 0.0001 in, 0.00005 in |                        |  |
| Error Limit  | (2,8 + L/300) L in mm                     |                        |  |
| Repeatability: Bore                                | 3 µm                                      |                        |  |
| Repeatability: Plane                               | 2 μm                                      |                        |  |
| Perpendicularity Error in μm                       | ≤15 µm                                    | ≤20 μm                 |  |
| Operating Time Max.                                | Up to 14 h                                |                        |  |
| Measuring Force                                    | 1.0 +/-0.2 N                              |                        |  |
| Permissible Relative Air<br>Humidity Non-Condensed | 65%                                       |                        |  |
| Working Temperature                                | 20 °C / 68 °F                             |                        |  |
| Operating Temperature                              | 10 °C - 40 °C / 50 °F - 40 °F             |                        |  |

The Digimar 817 CLM offers a wide range of measurement functions 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.

\$6,448 LIST PRICE \$8,060

-20%

**ORDER NO. 4429010P** 





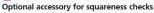














| Order No.  | 4429010P   | 4429011P               | 4429012P                |
|--|--|------------------------|-------------------------|
| List Price   | \$8,060  | \$8,570                | \$15,300                |
| Promo Price  | \$6,448  | \$6,850                | \$12,240                |
| Measuring Range                                    | 0 - 50 mm / 0 - 4 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, 0.00001 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<br>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.   | 4429018P | 4429019P |
|-------------|----------|----------|
| List Price  | \$1,140  | \$1,650  |
| Promo Price | \$912    | \$1,320  |
| Probe Set   | 817 ts2  | 817 ts1  |

#### 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 |
|-------------|
| \$2,140     |
| LIST PRICE  |
| \$2,380     |

**ORDER NO. 2191800P** 



| Order No.                             |  | 2191800P   | 2191802P  |
|---------------------------------------|--|--|---|
| List Price                            |  | \$2,380  | \$2,380   |
| Promo Price                           |  | \$2,140  | \$2,140   |
| Traverse Length<br>(Nominal)          | R <sub>a</sub> /R <sub>y</sub>                   | 2,0 mm / 0.075 in<br>3,5 mm / 0.135 in   |   |
|                                       | $R_a/R_z/R_{max}$                                | 5,0 mm / 0.195 in  |   |
| Evaluation Length                     | R <sub>a</sub> /R <sub>y</sub>                   | 0,8 mm / 0.030 in<br>2,4 mm / 0.090 in   |   |
|                                       | $R_a/R_z/R_{max}$                                | 4,0 mm / 0.150 in  |   |
| Number of Cutoffs/<br>Switch Position | R <sub>a</sub> /R <sub>y</sub>                   | 1<br>3   |   |
|                                       | R <sub>a</sub> /R <sub>z</sub> /R <sub>max</sub> | 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° to 45°C / 50° to 113° F  |   |
| Storage Temperature                   |  | -20° to 65°C / -4° to 149°   |   |
| Includes                              |  | EGH-1019: Probe, 90°, 10 µm Radius,<br>PMD-90101 Certified Specimen,<br>including Test Certificate | EGH-1026: Probe, 90°, 5 μm Radius,<br>PMD-90101 Certified Specimen,<br>Including Test Certificate |

<sup>\*</sup>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 \(\pu\mu/125\) \(\pu\minch\) (nominal) Reference Specimen\*\*, 9 Volt battery, riser plate



The NEW MarSurf PS 10 is a practical roughness measuring unit for mobile use. Using a smartphone-like 4.3 in TFT touch screen display, operation is fast, intuitive and user-friendly. Our next generation MarSurf PS 10 measures 31 roughness parameters, incorporates a removable drive and provides laboratory level performance on the shop floor.

\$2,660

ORDER NO. 6910230 & 6910232



| Order No.            | 6910230 6910232   |  |  |
|----------------------|---|--|--|
| Introductory Price   | \$2,660   |  |  |
| Measuring Principle  | Skid Probe System   |  |  |
| Number of Parameters | 31 (DIN/ISO, JIS, ASME, MOTIF)  |  |  |
| Measuring Range      | 350 μm / 0.014 μin  |  |  |
| Profile Resolution   | 8 μm / 3 μin  |  |  |
| Internal Memory      | 3,900 Profiles, 1500 PDF Files, 500,000 Results,<br>Memory can be Extended with Micro SD-Card up to 32 GB |  |  |
| Description          | PS 10 Kit with 2 μm Probe Tip PS 10 Kit with 5 μm Probe Tip   |  |  |

#### MarSurf PS 10 C2 Mobile Roughness Measuring Instrument

\$3,500

**ORDER NO. 6910235** 



| Order No.                                  | 6910235                                     |
|--|---|
| Introductory Price                         | \$3,500                                     |
| Stylus                                     | 2 μm  |
| Traverse Length Lt According to ISO/JIS    | 1,5 mm, 4,8 mm, N x Lc, Variable, Automatic |
| Traverse Length According to 12085 (MOTIF) | 1 mm, 2 mm, 4 mm                            |
| Evaluation Length According to ISO/JIS     | 1,25 mm, 4,0 mm                             |























#### Mahr Inc.

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