

# MarCator 1087 R / 1087 ZR

Digital indicator



## FUNCTIONS

- ON/OFF
- RESET (set display to zero)
- mm/inch
- Reversal of counting direction
- PRESET (for entering a numerical value)
- TOL (enter tolerance limit values)
- MAX/MIN memory for searching the reversal point
- (MAX-MIN) for testing flatness and concentricity
- ABS (display can be set to zero without losing reference to preset)
- DATA (data transmission via connection cable)
- Factor (adjustable)
- LOCK (individual key lock)



## Applications:

Comprehensive measuring functions for

- Static measurements such as lengths, distances and length differences
- Dynamic measurements such as radial runout, straightness and flatness via MAX / MIN / MAX-MIN functions

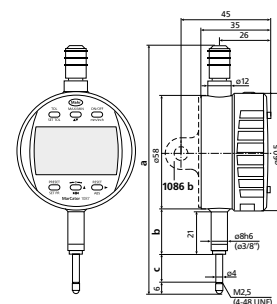
## FEATURES

- High contrast LCD display, thus very clear and safe to read
- Operating and display unit (bezel) can be rotated through 280°
- Immediate measurements due to the Reference System
- Lifter protection cap on the measuring spindle
- Mounting shank and measuring spindle are both made of hardened stainless steel
- **Software:** MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS-232 interface)
- **Digit height:** 8,5 mm
- **Data interface:** Opto RS-232C, Digimatic, USB
- **Energy supply:** Battery life approx. 3 years
- **Battery type:** CR 2450N (3V Lithium)
- **IP protection category:** IP 42
- **Package contains:** instruction manual, battery

## TECHNICAL DATA

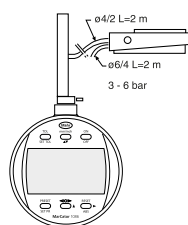
Order no.	4337660	4337661	4337666	4337670	4337671	
Type	1087 R		1087 ZR			
Measuring span	mm	12.5	25	50	12.5	25
Measuring span	inch	.5"	1"	2"	.5"	1"
Resolution	mm	0.0005, 0.001, 0.002, 0.005, 0.01				
Resolution	inch	.00002", .00005", .0001", .0002", .0005"				
Scale graduation values	mm	0.0005, 0.001, 0.002, 0.005, 0.01				
Graduation values	inch	.000002", .00005", .0001", .0002", .0005"				
Range of analog display	mm	± 0.01, ± 0.02, ± 0.04, ± 0.1, ± 0.2				
Range of analog display	inch	± .0004", ± .001", ± .002", ± .004", ± .01"				
Error limit	mm	0.004		0.007		0.004
Error limit over 50 graduations	mm	0.002				
Measuring force	N	0.65 – 0.9	0.65 – 1.15	1.25 – 2.7	0.65 – 0.9	0.65 – 1.15
Standard	Factory standard					
Lifting protection cap	•					

Order no.	a	b	c	Mounting shaft	Mounting shaft
	mm	mm	mm	inch	mm
4337660	126.3	23	13.5		8
4337661	153.4	26.8	26.5		8
4337666	267.3	40	52		8
4337670	126.3	23	13.5	0.375	
4337671	153.4	26.8	26.5	0.375	

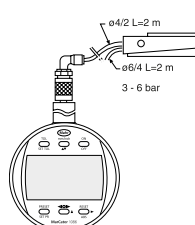


## ACCESSORIES

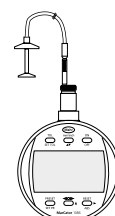
Order no.	Description	Type
4102357	16 EXu Data connection cable USB (2 m)	16 EXu
4102915	Interface adapter with data cable Digimatic (2 m)	16 EWd
4102410	Data connection cable RS232C (2 m)	16 EXr
4375004	Protective cap for 1075 R / 1086 R / 1087 R	1086 s
4337421	Lug back	1086 b
4336237	Pneumatic lifting (12.5 + 25 mm)	1082 p
4336311	Cable release (12.5 + 25 mm)	1085 a
4310103	Adapter bushing (.375" / 8 mm)	940
4336230	Pneumatic lifting (50 + 100 mm)	1082 p



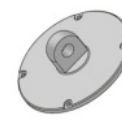
1082 p



1082 p



1085 a



1086 b