

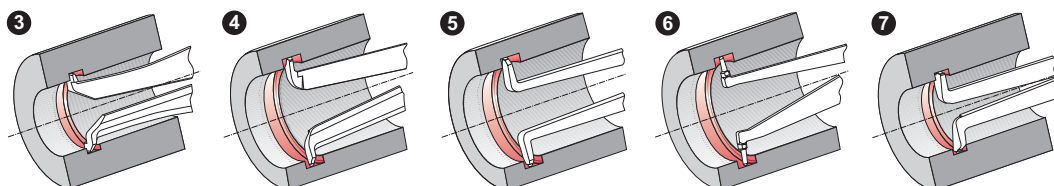
# MaraMeter 838 TI

## Gage for Internal Measurement



### FEATURES

- Contact points made of carbide
- Absolute measuring instrument
- Easy-to-read tolerance markers
- IP protection category: IP 65
- Package contains: test certificate



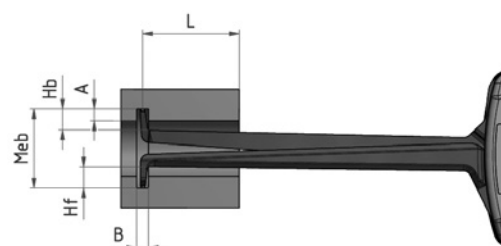
### Application:

- For measuring bores and internal grooves
- Easy to operate, portable and user-friendly

### TECHNICAL DATA

Order no.		4495580	4495581	4495582	4495583	4495584	4495585	4495586	4495587	
Product type		838 TI								
Measuring range	mm	5 – 15	10 – 30	20 – 40	30 – 50	40 – 60	50 – 70	15 – 65	40 – 90	
Graduation value	mm	0.005			0.01			0.05		
Measuring depth	mm	35			85			188	192	
Error limit	mm	0.015			0.03			0.05		
Repeatability	mm	0.005			0.01			0.025		
Groove depth	mm	2.3	5.2	7	8.3			5.5	8.3	
Groove width	mm	0.8			1.2			1.9	2.4	
Form of measuring contacts		4			5			6	7	
Diameter of measuring contact ball	mm	0.6			1			1.5	2	
Measuring force	N	0.8 – 1.2			1.1 – 1.6			0.9 – 1.9		

Order no.	A	B	D	Hb	Hf	Dimension L
	mm	mm	mm	mm	mm	mm
4495580	2.3	0.80	0.6	2.5	2.5	35
4495581	5.2	1.20	1	5.4	5.4	85
4495582	7	1.20	1	7.3	7.3	85
4495583	7	1.20	1	7.3	7.3	85
4495584	8.3	1.20	1	12.2	12.2	85
4495585	8.3	1.20	1	12.2	12.2	85
4495586	5.5	1.90	1.5	6	6	188
4495587	8.3	2.40	2	8.5	8.5	192



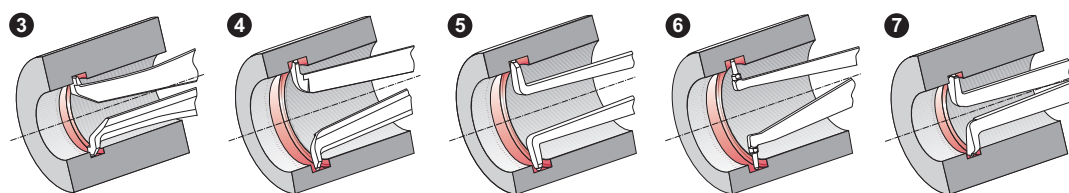
# MaraMeter 838 TIZ

Gage for Internal Measurement



## FEATURES

- Contact points made of carbide
- Absolute measuring instrument
- Easy-to-read tolerance markers
- IP protection category: IP 65
- Package contains: test certificate



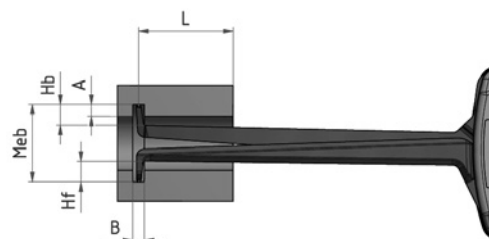
Application:

- For measuring bores and internal grooves
- Easy to operate, portable and user-friendly

## TECHNICAL DATA

Order no.	4495980	4495981	4495982	4495983	4495984	4495985	4495986	4495987
Product type	838 TIZ							
Measuring range	inch .20 – .60"	.40 – 1.20"	.80 – 1.60"	1.20 – 2.00"	1.60 – 2.40"	2.00 – 2.80"	.60 – 2.60"	1.60 – 3.60"
Graduation value	inch .0002"			.0005"				.001"
Measuring depth	inch 1.37"			3.2"			7.5"	7.6"
Error limit	inch .0008"			.0015"			.002"	
Repeatability	inch .0002"			.0005"			.001"	
Form of measuring contacts		4		5		6		7
Measuring contact ball diameter	inch .024"			.04"			.06"	.08"
Measuring force	N 0.8 – 1.2			1.1 – 1.6			0.9 – 1.9	

Order no.	Dimension A	Dimension B	D	Hb	Hf	L
	inch	inch	inch	inch	inch	inch
4495980	.09"	.032"	.024"	.97"	.97"	1.37"
4495981	.19"	.06"	.04"	.21"	.21"	3.2"
4495982	.26"	.08"	.04"	.29"	.29"	3.2"
4495983	.26"	.08"	.04"	.29"	.29"	3.2"
4495984	.31"	.08"	.04"	.33"	.33"	3.2"
4495985	.31"	.08"	.04"	.33"	.33"	3.2"
4495986	.2"	.08"	.06"	.25"	.25"	7.5"
4495987	.2"	.1"	.08"	.33"	.33"	7.6"



# MaraMeter 838 EI

Electronic Gage for Internal Measurement

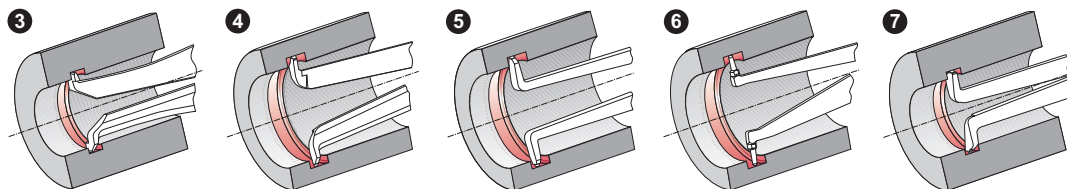


## FUNCTIONS

- ON/OFF
- mm/inch
- ABS (display can be set to zero without losing reference to preset)
- TOL (enter tolerance limit values)

## FEATURES

- High contrast analog and digital LCD
- Tolerance displayed with 2 LEDs
- **Data interface:** Digimatic, USB
- **Energy supply:** Battery operation (2x 1.5V AAA)
- **IP protection category:** IP 67
- **Package contains:** instruction manual, battery, test certificate



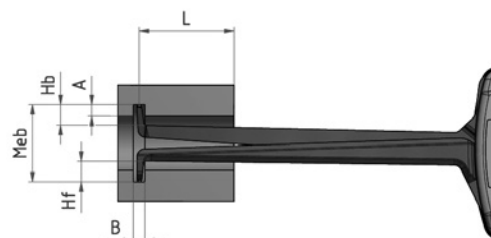
Application:

- Specified measuring programs according to application
- Absolute/relative measuring program

## TECHNICAL DATA

Order no.	4495590	4495591	4495592	4495593	4495594	4495595	4495598	4495599	4495600
Product type	838 EI								
Measuring range	mm 5-15	10-30	20-40	30-50	40-60	50-70	13-43	30-60	50-80
Graduation value	mm 0.005			0.01				0.02	
Measuring depth	mm 35			85			127	132	
Error limit	mm 0.015			0.03				0.04	
Repeatability	mm 0.005			0.01				0.02	
Groove depth	mm 2.3	5.2	7		8.3		5.7	6.2	8.3
Groove width	mm 0.8			1.2			1.6	1.8	2.4
Form of measuring contacts		4		5		6	4		6
Diameter of measuring contact ball	mm 0.6			1			1.3	1.5	2
Measuring force	N 0.8-1.2			1.1-1.6				1.2-1.7	

Order no.	A	B	D	Hb	Hf	Dimension L
	mm	mm	mm	mm	mm	mm
4495590	2.3	0.80	0.6	2.5	2.5	35
4495591	5.2	1.20	1	5.4	5.4	85
4495592	7	1.20	1	7.3	7.3	85
4495593	7	1.20	1	7.3	7.3	85
4495594	8.3	1.20	1	12.2	12.2	85
4495595	8.3	1.20	1	12.2	12.2	85
4495598	5.7	1.60	1.3	5.7	5.7	127
4495599	6.2	1.80	1.5	6.5	6.5	132
4495600	8.3	2.40	2	8.5	8.5	132



## ACCESSORIES

Order no.	Product name	Product type
4495083	Digimatic data cable (1.5 m)	838 di (A)
4495079	838 USB Data connection cable USB (1.5 m)	838 USB