Micromar 44 EWR

Digital Self-Centering Inside Micrometer

RS232C | Digimatic | ABS | IP 52 | REF system

FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to preset)
- mm/inch
- PRESET (for entering a numerical value)
- DATA (data transmission via connection cable)
- LOCK function (key lock)

FEATURES

- Threaded connection for changing the measuring head
- Self-centering measuring head consists of 3 laterally positioned anvils, each are offset at intervals of 120°
- Anvils from 12 mm are carbide-tipped
- From 12 mm the anvils can be used to measure the bottom of a bore
- From 40 mm all measuring heads are made from aluminium to reduce weight
- Software MarCom Professional free download: www.mahr.com/marcom (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 8.5 mm
- **Data interface:** Digimatic, Opto RS232C, USB
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 52
- **Package contains:** basic units 44 EWg, measuring head 44 Ak, instruction manual, battery, case

Application:

For measuring:

- Through holes
- Blind holes
- Centering shoulders

TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Standard	Measuring depth	Measuring depth with extension
		mm	inch	mm/inch	µm		mm	mm
4191120	44 EWR	6 –8	.25 –.3125″	0.001 / .00005″	4	DIN 863–4	58	133
4191121	44 EWR	8 –10	.3125 –.4″	0.001 / .00005″	4	DIN 863–4	58	133
4191122	44 EWR	10 –12	.4 –.4725″	0.001 / .00005″	4	DIN 863–4	58	133
4191123	44 EWR	12 –16	.4725 –.625″	0.001 / .00005″	4	DIN 863–4	64	139
4191124	44 EWR	16 –20	.625 –.775″	0.001 / .00005″	4	DIN 863–4	64	139
4191125	44 EWR	20 –25	.775 –1″	0.001 / .00005″	4	DIN 863–4	68	218
4191126	44 EWR	25 –30	1 –1.2″	0.001 / .00005″	4	DIN 863–4	68	218
4191127	44 EWR	30 –40	1.2 –1.6″	0.001 / .00005″	4	DIN 863–4	76	226
4191129	44 EWR	40 –50	1.6 –2″	0.001 / .00005″	4	DIN 863–4	76	226
4191130	44 EWR	50 –60	2 –2.35″	0.001 / .00005″	5	DIN 863–4	79	229
4191131	44 EWR	60 –70	2.35 –2.75″	0.001 / .00005″	5	DIN 863–4	79	229
4191032	44 EWR	70 –85	2.75 –3.35″	0.001 / .00005″	5	DIN 863–4	97	247
4191033	44 EWR	85 –100	3.35 –4″	0.001 / .00005″	5	DIN 863–4	97	247
4191034	44 EWR	100 –125	4 –4.9″	0.001 / .00005″	6	DIN 863–4	132	282
4191035	44 EWR	125 –150	4.9 –5.9″	0.001 / .00005″	6	DIN 863–4	132	282
4191036	44 EWR	150 –175	5.9 –6.9″	0.001 / .00005″	7	DIN 863–4	132	282
4191037	44 EWR	175 –200	6.9 –7.9″	0.001 / .00005″	7	DIN 863–4	132	282

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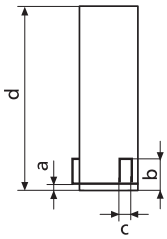
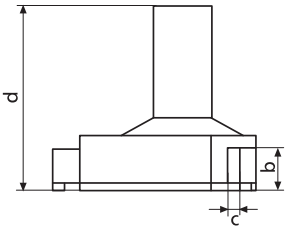
Micromar 44 EWR

Digital Self-Centering Inside Micrometer

Order no.	a	b	c	d
	mm	mm	mm	mm
4191120	1.5	4	1.5	58
4191121	1.8	4.3	1.5	58
4191122	1.8	4.3	1.5	58
4191123		6.5	4	64
4191124		6.5	4	64
4191125		9	4	68
4191126		9	4	68
4191127		15	5	76
4191129		15	5	76
4191130		18	5	79
4191131		18	5	79
4191032		23	7	97
4191033		23	7	97
4191034		27	7	132
4191035		27	7	132
4191036		27	7	132
4191037		27	7	132



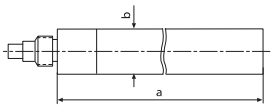


ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102915	Digimatic data cable (2 m)	16 EWd
4102231	16 EWe transmitter for e-Stick	16 EWe
4102410	Data connection cable RS232C (2 m)	16 EXr
4102357	16 EXu data connection cable USB (2 m)	16 EXu
4710026	Adjustment ring DIN 2250 C (8 mm)	355 E
4710030	Adjustment ring DIN 2250 C (10 mm)	355 E
4710032	Adjustment ring DIN 2250 C (12 mm)	355 E
4710036	Adjustment ring DIN 2250 C (16 mm)	355 E
4710040	Adjustment ring DIN 2250 C (20 mm)	355 E
4710045	Adjustment ring DIN 2250 C (25 mm)	355 E
4710050	Adjustment ring DIN 2250 C (30 mm)	355 E
4710060	Adjustment ring DIN 2250 C (40 mm)	355 E
4710070	Adjustment ring DIN 2250 C (50 mm)	355 E
4710080	Adjustment ring DIN 2250 C (60 mm)	355 E
4710105	Adjustment ring DIN 2250 C (85 mm)	355 E
4710121	Adjustment ring DIN 2250 C (125 mm)	355 E
4710122	Adjustment ring DIN 2250 C (175 mm)	355 E
4190090	Extensions 75 mm, (6 –12 mm)	44 Av
4190091	Extensions 75 mm, (12 –20 mm)	44 Av
4190092	Extensions 150 mm, (20 –30 mm)	44 Av
4190093	Extensions 150 mm, (30 –200 mm)	44 Av
4102230	e-Stick receiver	e-Stick

16 EWe

e-Stick



44 Av

355 E

Micromar 44 EWR

Digital Self-Centering Inside Micrometer Sets

RS232C | Digimatic | ABS | IP 52 | REF system

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Application:

- Through holes
- Blind holes
- Centering shoulders

TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Standard	Number of measuring heads 44 Ak	Setting rings
		mm	inch	mm/inch	µm			
4191160	44 EWR	6 –12	.25 –.4725"	0.001 / .00005"	4	DIN 863–4	3	8 mm, 10 mm
4191161	44 EWR	12 –20	.4725 –.775"	0.001 / .00005"	4	DIN 863–4	2	16 mm
4191162	44 EWR	20 –50	.775 –2"	0.001 / .00005"	4	DIN 863–4	4	25 mm, 40 mm
4191163	44 EWR	50 –100	2 –4"	0.001 / .00005"	5	DIN 863–4	4	60 mm, 85 mm

ACCESSORIES

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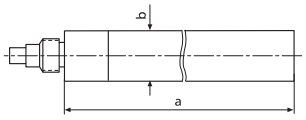
4102915	Digimatic data cable (2 m)	16 EWd
4102357	16 EXu data connection cable USB (2 m)	16 EXu
4102410	Data connection cable RS232C (2 m)	16 EXr
4102231	16 EWe transmitter for e-Stick	16 EWe
4102230	e-Stick receiver	e-Stick
4190090	Extensions 75 mm, (6 –12 mm)	44 Av
4190091	Extensions 75 mm, (12 –20 mm)	44 Av
4190092	Extensions 150 mm, (20 –30 mm)	44 Av
4190093	Extensions 150 mm, (30 –200 mm)	44 Av

16 EWe

e-Stick



44 Av

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