

Mechanical Manual Piece Counter



Type	T 120, T 123, T 124	T 130, T 134
Counting mode	Adding	Adding
Counting range	9999	9999
Digit size	4.5 mm	4.5 mm
Reset	Knurled knob	Knurled knob
Mounting	Retaining ring, table or wall mounting	Retaining ring, table or wall mounting
Dimensions in mm	Housing Ø 47 Base plate Ø 65	Housing Ø 47 Base plate Ø 65
Drive	Push button	Push button
Max. speed	--	--
Particularities	--	Print of company name/logo

Summary Mechanical Stroke and Revolution Counters



Type	H 126, U 126	H 127, U 127, T 127	H 300, M 300, U 300
Counting mode	Adding (subtr.)	Adding (subtr.)	Adding (subtr.)
Counting range	99 999	99 999 und 9999	999 999
Digit size	4.5 mm	4.5 mm	4.5 mm
Reset	Knurled knob	Knurled knob	Key
Mounting	Lateral	Front / back	Front / back
Dimensions	40 x 29 x 27.5 mm	40 x 29 x 27.5 mm	69 x 48 x 28 mm
Drive	Right or left	Right or left	On both sides
Max. speed (max./min)	500 strokes, 2000 rev.	500 strokes, 2000 rev.	500 strokes, 300 m 3000 rev.
Particularities	--	--	--



H 310, M 310, U 310	H, M, U 400, M 401, U 401	H, M, U 410, M 411, U 411
Adding (subtr.)	Adding (subtr.)	Adding (subtr.)
99 999	9 999 999	99 999
4.5 mm	7 mm	7 mm
Lever	Key	Lever
Lateral	Lateral	Lateral
69 x 48 x 28 mm	92 x 64 x 45 mm	92 x 64 x 45 mm
On both sides	On both sides / From below	On both sides / From below
500 strokes, 300 m 3000 rev.	--	--
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Summary Mechanical Preselection Counters



Type	ME102, UE102	ME230, UE230, ME231, UE231	ME280, UE280, ME281, UE281
Counting mode	Subtracting	Subtracting	Adding
Counting rate	9999	99 999	99 999
Digit size	5.5 mm	7 mm	7 mm
Reset	Button	Lever	Lever
Mounting	Mounting	Mounting	Mounting
Dimensions in mm	60 x 62 x 55	142 x 88 x 78	158 x 105 x 95
Drive	On both sides	On both sides	On both sides
Speed (max/min)	Max. 200.0 m, 6000 rev.	Max. 250.0 m, 5000 rev.	Max. 300.0 m, 6000 rev.
Particularities	1 preset	1 preset	1 or 2 presets



ME280 (PTB)	ME282 (PTB)
2 rev. = 100 digits, adding (subtr.)	2 rev. = 10 digits, adding (subtr.)
999.99 m	9999.95 m
7 mm	7 mm
Lever	Lever
Lateral	Lateral
158 x 105 x 95	158 x 105 x 95
On both sides	On both sides
25.00 m	250.00 m
PTB counter with 1 preset	PTB counter with 1 or 2 presets

Summary Mechanical Meter Counters



Type	H 300, M 300, U 300	H 310, M 310, U 310	H, M, U 400, M 401, U 401	H, M, U 410, M 411, U 411
Counting mode	Adding (subtr.)	Adding (subtr.)	Adding (subtr.)	Adding (subtr.)
Counting rate	999 999	99 999	9 999 999	99 999
Digit size	4.5 mm	4.5 mm	7 mm	7 mm
Reset	Key	Lever	Key	Lever
Mounting	Front / back	Lateral	Lateral	Lateral
Dimensions in mm	69 x 48 x 28 mm	69 x 48 x 28 mm	92 x 64 x 45 mm	92 x 64 x 45 mm
Drive	On both sides	On both sides	On both sides / From below	On both sides / From below
Max. speed (max/min)	500 strokes, 300 m 3000 rev.	500 strokes, 300 m 3000 rev.	--	--
Particularities	--	--	--	--



M 310.A (PTB)	M 410.A (PTB)	M 275 (PTB)
5 rev. = 100 digits, adding (subtr.)	2 rev. = 10 digits, adding (subtr.)	2 rev. = 1.00 m, adding (subtr.)
999.99 m	9999.95	999.95 m
4.5 mm	7 mm	7 mm / 4.5 mm
Lever	Lever	Lever
Lateral	Lateral	Lateral
69 x 48 x 28	92 x 64 x 45	167 x 115 x 75
On both sides	On both sides	On both sides
20.00 m	200.00 m	250.00 m
PTB counter	PTB counter	PTB counter with printer

Small measuring wheels



Type	MR211	MR241	MR261	MR291
Circumference	0.2 m	0.2 m	0.2 m	0.2 m
Measuring width	12 mm	12 mm	12 mm	12 mm
Standard bore Ø	4 mm	4 mm	4 mm	4 mm
Profile	Axial and circum. knurl	Smooth Hytrel	Knopped rubber	Grooved Hytrel
Wheel Material	Aluminium	Plastic	Aluminium	Plastic
Weight in g	ca 40	ca. 35	ca. 40	ca. 35
Temp. of applic. at room temp.	80 °C	70 °C	50 °C	70 °C

Big measuring wheels



Type	MR512	MR542	MR552	MR562	MR592	MR751
Circumference	0.5 m	0.5 m	0.5 m	0.5 m	0.5 m	1 foot
Measuring width	25 mm	25 mm	25 mm	25 mm	25 mm	13 mm
Standard bore \varnothing	7 / 10 mm	7 / 10 mm	7 / 10 mm	7 / 10 mm	7 / 10 mm	4 mm
Profile	Axial and circum. Knurl	Smooth Hytrel	Smooth Vulkollan	Knopped rubber	Grooved Hytrel	Smooth rubber
Wheel Material	Aluminium	Plastic	Aluminium	Aluminium	Plastic	Aluminium
Weight in g	ca. 350	ca. 260	ca. 320	ca. 320	ca. 260	ca. 100
Temp. of applic. at room temp.	80 °C	70 °C	80 °C	50 °C	70 °C	50 °C

Electro-mechanical Impulse Counters



Type	F 102, F 112, F 122	F 304, 314, 324, 364	F 503, F 513, F 523
Standard voltage	24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC
Pulses/s	DC 20, AC 20, 220 VAC 6	AC 10, DC 20	DC 10, AC 5
Reset	Button or without Reset	Button, key, w/o Reset	Button or w/o reset
E-connection /Standard	Contact pins w. term. Cont.	Cont. pins w. term. scr. term.	Flat pin with litz
Life cycle	DC 10^8 , AC 5×10^7 pulses	DC 10^8 , AC 5×10^7 pulses	10^6 Pulses
Number of digits	4 / 6	6 or 8	5 with reset, 7 w/o reset
Digit size	4 mm	4.5 mm	4 mm
Mounting	In the middle, screw/ clamping fixture	Push-in housing Screw / clamping fixture	In the middle, Screw/ clamping fixture
Front dimensions	32 x 21.5, 37 x 25, 39 x 37 mm	50 x 25, 60 x 50, 53.2 x 28.2 mm etc.	36 x 22, 45.7 x 45.7, 42 x 28 mm



F 504, 514, 518, 524	FD270
24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC
DC 20, AC 10	5
Button or w/o reset	Lever
Cont. pins w. term. contact	PG 9
DC 10^8 , AC 5×10^7 pulses	--
6 and 8	5 or 6
4.5 mm	7 mm
Push-in housing, Screw/ clamping fixture	Mounting
50 x 25, 60 x 37.5, 66.5 x 37 mm etc.	--
--	With Printer

Electro-mechanical Preselection Counter, Adding and Subtracting



Type	FE304, FE314, FE324	FE309, FE319, FE329	FE504, FE514, FE524	FS218, FS219
Counting mode	Adding	Adding	Adding	Subtracting
Standard voltage	24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC	24 VDC, 24 VAC, 110 VAC, 230 VAC
Pulses / s	DC 20, AC 10	DC 20, AC 10	DC 20, AC 10	10
Reset	Button, key	Button, electr.	Button	Button or electric
E-connection/Standard	Contact pins	Contact pins	Contact pins	Terminal strip
Life cycle	10 ⁸ pulses	Counting 10 ⁸ pulses El. Reset. 10 ⁶ pulses	DC 10 ⁸ pulses AC 5x10 ⁷ pulses	10 ⁸ pulses, electric Reset 10 ⁶ pulses
Number of digits	5	5	6	5
Digit size	4.5 mm	4.5 mm	4.5 mm	8 mm
Mounting	Push-in housing clamping fixture	Push-in housing clamping fixture	Push-in housing clamping fixture	Screw fixture
Front dimensions	50 x 50, 60 x 75, 53.2 x 53.2 mm	50 x 50, 60 x 75, 53.2 x 53.2 mm	50 x 50, 60 x 75, 53.2 x 53.2 mm	144 x 72 mm
Particularities	1 preset	1 preset, electr. reset	1 preset	1 preset