

## Movements for description key

I	Impulse	item no. SAP	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
I00	NU 90k	116521	x		3.5	80	12-60 VDC, 6-12 mA	minute impulse	800142
I01	NU 90m	116523	x		8	80	12-60 VDC, 6-12 mA	minute impulse	800142
I02	NU 90t	116525	x		24	80	12-60 VDC, 6-12 mA	minute impulse	800142
I03	NU 91k	116527	x		3.5	80	24 VDC, 6 mA	minute impulse	800142
I04	NU 91m	116529	x		8	80	24 VDC, 6 mA	minute impulse	800142
I05	NU 90/SYN	116533		x	8	80	12-60 VDC, 6-12 mA + 230 VAC	minute impulse	800143
I06	NU 90t/SYN	116538		x	24	80	12-60 VDC, 6-12 mA + 230 VAC	minute impulse	800143
I07	NU 90k ½ Min	116556	x		3.5	80	12-60 VDC, 6-12 mA	minute impulse	800142
I08	NU 90m ½ Min	116558	x		8	80	12-60 VDC, 6-12 mA	minute impulse	800142
I09	NU 90t ½ Min	116560	x		24	80	12-60 VDC, 6-12 mA	minute impulse	800142
I10	NU 90/SYN ½ Min	116536		x	8	80	12-60 VDC, 6-12 mA + 230 VAC	minute impulse	800143
I11	NU 90t/SYN ½ Min	116541		x	24	80	12-60 VDC, 6-12 mA + 230 VAC	minute impulse	800143
I15	AA0	115646	x		2	30	24 VDC, 6 mA	minute impulse	-
I16	EE0	29867		x	2	30	12-60 VDC, 6-12 mA	second impulse	-
I17	E1G	27023		x	3	40	12-60 VDC, 6-12 mA	second impulse	-
I20	IBU 190 S	115712		x	4	80	45-265 VAC	minute impulse	800634
I21	IBU 190t S	115714		x	14.5	80	45-265 VAC	minute impulse	800634
I30	SEI 40	115759		x	3	40	20-60 VDC, 10 mA	second impulse	800936
I31	PSP 2200	127241	x		5	60	-	minute impulse	-
I32	---								

M/T	MOBALine / IRIG	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
M00	SAM 40 V2	129425	x		3	40	MOBALine	MOBALine	800752
M01	SEM 00t	203016		x	2.4	30	MOBALine	MOBALine	800554
M03	MLU 190	115686	x		4	80	MOBALine	MOBALine	800642
M04	MLU 190t	115688	x		14.5	80	MOBALine	MOBALine	800642
M05	MLU 190t ½Min	115692	x		14.5	80	MOBALine	MOBALine	800642
M06	MLU 190t 230	115690	x		14.5	80	230 VAC	MOBALine	800622
M07	MLU 190 S 48	115694		x	4	80	MOBALine	MOBALine	800621
M08	MLU 190 S 48 ½Min	115696		x	4	80	MOBALine	MOBALine	800621
M09	MLU 190t S 48	115698		x	14.5	80	MOBALine	MOBALine	800621
M11	MLU 190 S 230	115700		x	4	80	230 VAC	MOBALine	800565
M12	MLU 190t S 230	115702		x	14.5	80	230 VAC	MOBALine	800565
M13	MLU 190t S 230 ½Min	115704		x	14.5	80	230 VAC	MOBALine	800565
M15	SAM 100	118173	x		4	100	MOBALine	MOBALine / Active DCF bipolar	801073
M16	SAM 100t	118174	x		14.5	100	MOBALine	MOBALine / Active DCF bipolar	801073
M17	SEM 100	118171		x	4	100	MOBALine	MOBALine / Active DCF bipolar	801073
M18	SEM 100t	118172		x	14.5	100	MOBALine	MOBALine / Active DCF bipolar	801073
M19	SEM 100k			x	4	40	MOBALine	MOBALine	801073
M20	---								
M21	SEM 40 V2	129426		x	3	40	MOBALine	MOBALine	800752
M23	---								
M24	---								
M25	---								
T50	ATBU 190 230	115720	x		4	80	230 VAC	IRIG/AFNOR	800390
T51	ATBU 190t 230	115722	x		14.5	80	230 VAC	IRIG/AFNOR	800390
T52	ITBU 190 S 230	115716		x	4	80	230 VAC	IRIG/AFNOR	800390
T53	ITBU 190t S 230	115718		x	14.5	80	230 VAC	IRIG/AFNOR	800390
T54	TBU 190 S 230	115706		x	4	80	230 VAC	IRIG/AFNOR	800625
T55	TBU 190t S 230	115708		x	14.5	80	230 VAC	IRIG/AFNOR	800625

R	DCF, MSF, WWVB GPS WTD	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
R00	BU 190 230	115677	x		4	80	230 VAC	DCF-77	800603
R01	BU 190t 230	115682	x		14.5	80	230 VAC	DCF-77	800603
R02	BU 190t S 48	115685		x	14.5	80	48 VAC	DCF-77	800604
R03	BU 190 S 230	115675		x	4	80	230 VAC	DCF-77	800602
R04	BU 190t S 230	115679		x	14.5	80	230 VAC	DCF-77	800602
R10	2xBU 190t 230 + Mul	115682+116981	x		14.5	80	230 VAC	DCF-77	800603
R11	2xBU 190t S 230 + Mul	115679+116981		x	14.5	80	230 VAC	DCF-77	800604
R20	Blado Radio movement	106428		x	3	30	AA battery	DCF-77	-
R21	FWUt	106426		x	3	30	AA battery	DCF-77	-
R22	FWUt + 1.5V Mains power supply	106426+		x	3	30	230 VAC	DCF-77	-
R25	FU 192	106440	x		4	80	lithium battery	DCF-77	800163
R26	FU 192t	106441	x		14.5	80	lithium battery	DCF-77	800163
R27	BU 192	106435	x		4	80	lithium battery	cascade	800163
R28	BU 192t	106436	x		14.5	80	lithium battery	cascade	800163
R29	FU 192t + BU 192t + CC	106441+106436+116022	x		14.5	80	lithium battery	DCF-77	800163
R30	BU 192t + AD 192.5	106436+111769	x		14.5	80	lithium battery	DCF-77	800163
R31	2xBU 192t + AD 192.5 + CC	106436+111769+116022	x		14.5	80	lithium battery	DCF-77	800163
R32	BU 192 + AM 192	106435+111767	x		4	80	lithium battery	MSF-60	800163
R33	BU 192t + AM 192.5	106436+111768	x		14.5	80	lithium battery	MSF-60	800163
R34	2xBU 192 + AM 192.5 + CC	106435+111768+116022	x		4	80	lithium battery	MSF-60	800163
R35	2xBU 192t + AM 192.5 + CC	106436+111768+116022	x		14.5	80	lithium battery	MSF-60	800163
R37	BU 192 + AD 192.5	106435+111769	x		4	80	lithium battery	DCF-77	800163
R38	FU192WWVB+BU192WWVB+CC	106455+106437+116022	x		4	80	lithium battery	WWVB	800294 -
R39	2xBU 192 WWVB+AW 192.5+CC	106437+111771+116022	x		4	80	lithium battery	WWVB	-
R40	FU 192 WWVB	106455	x		4	80	lithium battery	WWVB	800294
R41	FU 192t WWVB	106454	x		14.5	80	lithium battery	WWVB	800294
R42	BU 192 WWVB	106437	x		4	80	lithium battery	WWVB	-
R43	BU 192t WWVB	106438	x		14.5	80	lithium battery	WWVB	-
R45	ADU 190 S ½Min	115739		x	4	80	DCF	active DCF	800506
R46	ADU 190t S ½Min	115734		x	14.5	80	DCF	active DCF	800506
R50	GU 192 V2	120719	x		4	80	lithium battery	GPS	800304
R51	GU 192t V2	120720	x		14.5	80	lithium battery	GPS	800304
R52	GUB 192 V2	106451	x		4	80	lithium battery	GPS	800304
R53	GUB 192t V2	106452	x		14.5	80	lithium battery	GPS	800304
R54	GU 192t + BU 192t + CC	120720+106436+116022	x		14.5	80	lithium battery	GPS	800304 800163
R55	GUB 192t + BU 192t + CC	106452+106436+116022	x		14.5	80	lithium battery	GPS	800304 800163
R60	BU 190 230 + GPS + PS24	115677+104904	x		4	80	230 VAC	GPS (DCF)	800603
R61	BU 190t 230 + GPS + PS24	115682+104904	x		14.5	80	230 VAC	GPS (DCF)	800603
R62	BU 190 S 230 + GPS + PS24	115675+104904		x	4	80	230 VAC	GPS (DCF)	800602
R63	BU 190t S 230 + GPS + PS24	115679+104904		x	14.5	80	230 VAC	GPS (DCF)	800602
R64	2xBU 190t 230+Mul+GPS+PS24	115682+104904	x		14.5	80	230 VAC	GPS (DCF)	800603
R65	2xBU190t S 230+Mul+GPS+PS24	115679+116981+104904		x	14.5	80	230 VAC	GPS (DCF)	800602
R66	4xBU 190t 230+Mul4+GPS	115682+115992	x		14.5	80	230 VAC	GPS (DCF)	800603
R67	4xBU190t S 230+Mul4+GPS	115679+115992		x	14.5	80	230 VAC	GPS (DCF)	800602
R70	Airport24			x		40	2 x AA battery	WTD-PV	
R75	SAW 00	106432	x		3	30	AA battery	WTD	800544
R76	SEW 00	106430		x	3	30	AA battery	WTD	800544

R77	SAW 00 MPS	116548	x		3	30	230 VAC	WTD	800544
R78	SEW 00 MPS	116546		x	3	30	230 VAC	WTD	800544
R79	BU 192 + RU	106435+117899	x		4	80	lithium battery	WTD	800163
R80	BU 192t + RU	106436+117899	x		14.5	80	lithium battery	WTD	800163
R81	MLU 190 + RM + PS24	115686+117897+104904	x		4	80	230 VAC	WTD	800642
R82	MLU 190t + RM + PS24	115688+117897+104904	x		14.5	80	230 VAC	WTD	800642
R83	MLU 190 S 48 + RM + PS24	115694+117897+104904		x	4	80	230 VAC	WTD	800621
R84	MLU 190t S 48 + RM + PS24	115698+117897+104904		x	14.5	80	230 VAC	WTD	800621
R85	SAM 40 + RM + PS24	115749+117897+104904	x		3	40	230 VAC	WTD	800752
R86	SEM 40 + RM + PS24	115748+117897+104904		x	3	40	230 VAC	WTD	800752
R87	1x SAM 100 + RM + PS24	118173+117897+104904	x		4	100	230 VAC	WTD	800642
R88	1x SAM 100t + RM + PS24	118174+117897+104904	x		14.5	100	230 VAC	WTD	800642
R89	1x SEM 100 + RM + PS24	118171+117897+104904		x	4	100	230 VAC	WTD	800621
R90	1x SEM 100t + RM + PS24	118172+117897+104904		x	14.5	100	230 VAC	WTD	800621

N	LAN / NTP	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
N00	NBU 190 24 + PS24	115743+104904	x		4	80	230 VAC	NTP	800695
N01	NBU 190t 24 + PS24	115742+104904	x		14.5	80	230 VAC	NTP	800695
N02	NBU 190 S 24 + PS24	115741+104904		x	4	80	230 VAC	NTP	800695
N03	NBU 190t S 24 + PS24	115740+104904		x	14.5	80	230 VAC	NTP	800695
N10	NBU 190 PoE	115743	x		4	80	PoE	NTP	800695
N11	NBU 190t PoE	115742	x		14.5	80	PoE	NTP	800695
N12	NBU 190 S PoE	115741		x	4	80	PoE	NTP	800695
N13	NBU 190t S PoE	115740		x	14.5	80	PoE	NTP	800695
N19	SEN 00	115672		x	3	40	PoE	NTP multicast	800540
N20	SAN 40	115754	x		3	40	PoE	NTP	800751
N21	SEN 40	115753		x	3	40	PoE	NTP	800751
N23	---								
N24	---								
N25	---								
N50	MLU 190t + NCI	115688+117892	x		14.5	80	PoE	NTP multicast	800304
N51	MLU 190 S 48 + NCI	115694+117892		x	4	80	PoE	NTP multicast	800621
N52	MLU 190t S 48 + NCI	115698+117892		x	14.5	80	PoE	NTP multicast	800621
N53	2 x MLU 190t + NCI	115688+117892	x		14.5	80	PoE	NTP multicast	800642
N54	2 x MLU 190t S 48 + NCI	115698+117892		x	14.5	80	PoE	NTP multicast	800621

W	Wifi LAN / NTP	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
W01	---								
W02	SEW 30	134425		x	3	40 (30cm hands)	2xAA Lith. battery	NTP	801379
W03	SAW 30	134609	x		3	40 (30cm hands)	2xAA Lith. battery	NTP	801379
W04	SEW 30 MPS	133515		x	3	40 (30cm hands)	230 VAC	NTP	801379
W05	SAW 30 MPS		x		3	40 (30cm hands)	230 VAC	NTP	801379
W06	---								
W07	---								
W08	---								

F	Facade/large clocks	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
F00	A 35	36717	x		36	80-150	12-48 VDC/125 mA	impulse	800275
F01	A 40	25782	x		14.5	40-60	24-60 VDC/100 mA	impulse	800134
F02	A 43	25863/1	x		40	40-60	24-60 VDC/100 mA	impulse	800134
F03	A 45	25784	x		300	40-60	24-60 VDC/100 mA	impulse	800134
F04	A 50	25781	x		-	80-150	24-60 VDC/100 mA	impulse	800134
F05	A 53	25864/1	x		40	80-150	24-60 VDC/100 mA	impulse	800134
F06	A 55	25783	x		450	80-120	24-60 VDC/100 mA	impulse	800134
F09	MW 10 e-mem	115764	x		600	100-350	12-60 VDC/4 mA	impulse	Elekon
F10	MWS 10 e-mem	115776		x	600	100-250	12-60 VDC/4 mA	impulse	Elekon
F11	MW 20 e-mem	115765	x		800	350-500	12-60 VDC/4 mA	impulse	Elekon
F12	MWS 20 e-mem			x	800	250-500	12-60 VDC/4 mA	impulse	Elekon
F13	MW 24 e-mem	115766	x		800	500	12-60 VDC/4 mA	impulse	Elekon
F20	DMU 140	115767	x		28	80-140	MOBALine	MOBALine	800514
F21	DMU 140 + PS24	115767+104904	x		28	80-140	10-30 VDC/<1.5 VA	MOBALine, DCF, GPS, serial	800514
F22	DMU 160F	118588	x		0	60-160	MOBALine	MOBALine	801072
F23	DMU 160S	118594	x		40	60-160	MOBALine	MOBALine	801072
F24	DMU 160M	118362	x		350	60-160	MOBALine	MOBALine	801072
F25	DMU 160V	118577	x		Var.	60-160	MOBALine	MOBALine	801072
F26	DMU 160F	118588+104904	x		0	60-160	24 VDC ±20%	MOBALine, DCF	801072
F27	DMU 160S	118594+104904	x		40	60-160	24 VDC ±20%	MOBALine, DCF	801072
F28	DMU 160M	118362+104904	x		350	60-160	24 VDC ±20%	MOBALine, DCF	801072
F29	DMU 160V	118577+104904	x		Var.	60-160	24 VDC ±20%	MOBALine, DCF	801072
F30	DMU 350	115770	x		600	350	90-265 VAC/<25 VA	MOBALine, DCF, GPS, serial	800538

Q	Quartz / synchronic	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
Q01	QU 192	106444	x		5	25-80	lithium battery	quartz	LE-800171
Q02	QU 192t	106445	x		8	25-80	lithium battery	quartz	LE-800171
Q03	QU 192t + BU 192t + CC	106445+106435+116022	x		8	25-80	lithium battery	quartz	LE-800171
Q20	DQ	100810		x	1	25-40	AA battery	quartz	-
Q21	DQt	100811		x	3	25-40	AA battery	quartz	-

S	Serial	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	impulse voltage / current or power supply voltage	time source	Manual number
S00	SU 190 230	115729	x		4	80	230 VAC	serial	800623
S01	SU 190t 230	115731	x		14.5	80	230 VAC	serial	800623
S02	SU 190 S 230	115724		x	4	80	230 VAC	serial	800624
S03	SU 190t S 230	115726		x	14.5	80	230 VAC	serial	800624
S10	BU 190t 230 ser	115682	x		14.5	80	230 VAC	serial	800603
S11	BU 190t S 230 ser	115679		x	14.5	80	230 VAC	serial	800602

C	Clock Controller combinations	item no.	h/m	h/m/s	max. dial thickness (mm)	dial Ø (cm)	supply voltage	time source	t Manual number
C01	SAM 100t + DCC	118174+116719	x		14.5	100	230 VAC	DCF current loop / MOBALine	801073
C03	SEM 100t + DCC	118172+116719		x	14.5	100	230 VAC	DCF current loop / MOBALine	801073
C05	SAM 100t + DCC48V	118174+118940	x		14.5	100	230 VAC or 48 VAC	DCF current loop / MOBALine	801073
C07	SEM 100t + DCC48V	118172+118940		x	14.5	100	230 VAC or 48 VAC	DCF current loop / MOBALine	801073
C09	SAM 100t + NCC	118174+116720	x		14.5	100	230 VAC or PoE	NTP Unicast or Multicast	801073
C11	SEM 100t + NCC	118172+116720		x	14.5	100	230 VAC or PoE	NTP Unicast or Multicast	801073
C13	SAM 100t + DCC30V	118174+120782	x		14.5	100	DCF act./ 30VDC	DCF active	801073
C15	SEM 100t + DCC30V	118172+120782		x	14.5	100	DCF act./ 30VDC	DCF active	801073
C17	NU 90t + ILC	116525+123120	x		14.5	80	230 VAC	24 V pol. minute impulses	
C19	NU 90t SYN + ILC	116538+123120		x	14.5	80	230 VAC	24 V pol. minute impulses	
C21	ATBU 190t 230 + ILC	115722+123120	x		14.5	80	230 VAC	IRIG-B	
C23	ITBU 190t S 230+ILC	115718+123120		x	14.5	80	230 VAC	IRIG-B	
C25	SAM 100t + DCC/Dali	118174+130710	x		14.5	100	230 VAC	DCF current loop / MOBALine	801073
C27	SEM 100t + DCC/Dali	118172+130710		x	14.5	100	230 VAC	DCF current loop / MOBALine	801073
C28	SEM 100 + NCC plus	118173+ ???		x	4	100	230 VAC or PoE	NTP Unicast or Multicast	???

### Legend

<b>CC</b>	cascade cable	116022	<b>DCC</b>	DCF Clock Controller	116719
<b>PS24</b>	IMPS 24	104904	<b>DCC48V</b>	DCF Clock Controller + 48 V input	
<b>GPS</b>	prepared for GPS 4500	-	<b>DCC30V</b>	DCF Clock Controller + 30 V input	
<b>ser</b>	serial RS 232	-	<b>NCC</b>	Network Clock Controller	116720
<b>Mul</b>	DCF multiplier	116981	<b>NCC plus</b>	NCC with additional inputs	???
<b>Mul4</b>	DCF Multi 4	115992	<b>xxx</b>	Discontinued movement	
<b>RM</b>	WTD 868-RM	117897	<b>xxx</b>	New inserted	
<b>RU</b>	WTD 868-RU	117899	<b>xxx</b>	Discontinued 2020/2021	
<b>NCI</b>	Network Clock Interface	117892	<b>ILC</b>	Illumination controller	123120
<b>M00</b>	<b>SAM 40 (old)</b>	<b>115749</b>	<b>DCC/Dali</b>	DCC with illu. control via Dali bus	130710

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