

Stand-alone Clocks - radio

Analogue Clocks type MSF



MSF analogue clocks type are operated and controlled by radio signal time code (containing information about year, month, day, hour and minute) received from the transmitter located in the United Kingdom.

Each clock movement is fully automatic with built in microcontroller and a long wave radio receiver (MSF RUGBY). The radio receiver including an ferrite antenna, but is also equipped with an input for external antenna.

In/Outdoor with aluminium housing

Operation: Battery or mains 230VAC
Sizes: dia. 400, 600, 800 and 900 mm.
Housing: Aluminium in dark grey (RAL 7037)
Dial face: Mat white with either black numerals 1-12 or hour marks.
Hands: Black hours- and minutes hands.
Protection: Convex protection of acrylic plastic.
Single sided: For surface wall mounting.
Double sided: Including bracket for either wall mounting, standing on roof or hanging from ceiling.

Technical information

A red LED on the movement flashing in seconds rhythm indicates received MSF-signal (only mains 230VAC operated). When the movement has received and accepted an MSF-signal, it will step forward to correct time by rapid impulses. Automatic feedback control of the hands at 12.00 and 00.00.
In case the MSF-signal would disappear, the clock continues by means of the built-in quartz crystal.

Battery operated - in/outdoor.

The movement can work with two types of batteries. Lithium batteries (Art.No. 113191-00 4 years, or 113192-00 8 years) or Alkaline batteries (Art.No. 113190-00) available as options.
Lifetime for the batteries, see separate description.

Mains 230VAC operated - in/outdoor.

During a power failure the clock is temporarily stopped. After the restoration of power, the clock steps forward to the 12.00-position and waits for a MSF-signal to be received. Then rapid impulses to correct time. With the option running reserve (113195-00), the clock will continue to work during the power failure for 12 hours.

Operation	In/Outdoor	Single/ double sided	Size mm.	Type of dial face A = numerals 1-12 H = hour marks	Art.No.	Internal illumination
Battery	Indoor	single sided	400	A	10 41 650-00	No
Battery	Indoor	single sided	400	H	10 43 650-00	No
Battery	Indoor	single sided	600	A	10 61 650-00	No
Battery	Indoor	single sided	600	H	10 63 650-00	No
Battery	Indoor	single sided	900	A	10 91 650-00	No
Battery	Indoor	single sided	900	H	10 93 650-00	No
Battery	Outdoor	single sided	400	A	11 41 650-00	No
Battery	Outdoor	single sided	400	H	11 43 650-00	No
Battery	Outdoor	single sided	600	A	11 61 650-00	No
Battery	Outdoor	single sided	600	H	11 63 650-00	No
Battery	Outdoor	single sided	900	A	11 91 650-00	No
Battery	Outdoor	single sided	900	H	11 93 650-00	No
Battery	Outdoor	single sided	600	A	11 62 650-00	Yes ²⁾
Battery	Outdoor	single sided	600	H	11 64 650-00	Yes ²⁾
Battery	Outdoor	single sided	900	A	11 92 650-00	Yes ²⁾
Battery	Outdoor	single sided	900	H	11 94 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	400	A	14 41 650-00	No
Battery	Outdoor	double sided ¹⁾	400	H	14 43 650-00	No
Battery	Outdoor	double sided ¹⁾	600	A	14 61 650-00	No
Battery	Outdoor	double sided ¹⁾	600	H	14 63 650-00	No
Battery	Outdoor	double sided ¹⁾	900	A	14 91 650-00	No
Battery	Outdoor	double sided ¹⁾	900	H	14 93 650-00	No
Battery	Outdoor	double sided ¹⁾	400	A	14 42 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	400	H	14 44 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	600	A	14 62 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	600	H	14 64 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	900	A	14 92 650-00	Yes ²⁾
Battery	Outdoor	double sided ¹⁾	900	H	14 94 650-00	Yes ²⁾

¹⁾ = including bracket for either wall mounting, standing on roof or hanging from ceiling

²⁾ = illumination tube not included

Operation	In/Outdoor	Single/ double sided	Size mm.	Type of dial face A = numerals 1-12 H = hour marks	Art.No.	Internal illumination
Mains 230VAC	Indoor	single sided	400	A	10 41 630-00	No
Mains 230VAC	Indoor	single sided	400	H	10 43 630-00	No
Mains 230VAC	Indoor	single sided	600	A	10 61 630-00	No
Mains 230VAC	Indoor	single sided	600	H	10 63 630-00	No
Mains 230 VAC	Indoor	single sided	900	A	10 91 630-00	No
Mains 230VAC	Indoor	single sided	900	H	10 93 630-00	No
Mains 230VAC	Outdoor	single sided	400	A	11 41 630-00	No
Mains 230VAC	Outdoor	single sided	400	H	11 43 630-00	No
Mains 230VAC	Outdoor	single sided	600	A	11 61 630-00	No
Mains 230VAC	Outdoor	single sided	600	H	11 63 630-00	No
Mains 230VAC	Outdoor	single sided	900	A	11 91 630-00	No
Mains 230VAC	Outdoor	single sided	900	H	11 93 630-00	No
Mains 230VAC	Outdoor	single sided	600	A	11 62 630-00	Yes ²⁾
Mains 230VAC	Outdoor	single sided	600	H	11 64 630-00	Yes ²⁾
Mains 230VAC	Outdoor	single sided	900	A	11 92 630-00	Yes ²⁾
Mains 230VAC	Outdoor	single sided	900	H	11 94 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	400	A	14 41 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	400	H	14 43 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	600	A	14 61 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	600	H	14 63 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	900	A	14 91 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	900	H	14 93 630-00	No
Mains 230VAC	Outdoor	double sided ¹⁾	400	A	14 42 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	400	H	14 44 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	600	A	14 62 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	600	H	14 64 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	900	A	14 92 630-00	Yes ²⁾
Mains 230VAC	Outdoor	double sided ¹⁾	900	H	14 94 630-00	Yes ²⁾

¹⁾ = including bracket for either wall mounting, standing on roof or hanging from ceiling

²⁾ = illumination tube not included