



## Analogue Clocks type TIME CODE



Westerstrand analogue clocks type **TIME CODE** are operated and controlled by serial time code (containing information about year, month, day, hour and minute) from Westerstrand Master Clock with time code output. This type of Master Clock provides, in combination with the time code, also 24VDC supply to the analogue clocks.

**Each clock movement has its own microprocessor** to receive the time code, detecting the position of the hands and thereafter **automatically set the hands** to correct time.

Each clock of a time code system is connected to a 2-wire bus, which combines 24VDC voltage feeding and the serial time code. This combination of voltage and time code on the same pair of wires makes both cable laying and installation easier.

Also exchanging slave clocks in an old system using polarised 24VDC impulses is easily made as the existing cable can be used.

### Indoor/Outdoor with aluminum housing

- Sizes dia. 400, 600 and 900 mm.
- Housing: aluminum in light grey, RAL 7037 with or without internal LED-illumination
- 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 bracket are used, wall mounting, standing on roof or hanging from ceiling.

### Technical information

The baudrate of the time code is low, only 1 bit/second. This ensures that no high demands are set to the cable used at installation.

Automatic control of the hands position at 12.00. The 12-position is detected by magnets and hall sensors. In the event of a power failure, the clock is temporarily stopped. When power returns the hands will automatically, and rapidly, be set to 12-position and thereafter to correct present time.

### Installation

The clock is connected to the 2-wire bus. The hour- and minute hands are automatically, and rapidly, set to 12-position and remain there while waiting for correct time information to be received through the time code. When the movement has received, and accepted, a time code, the hands are automatically, and rapidly, forwarded to correct time. The speed at automatic rapid setting is one minute per second. Example: to rapidly forward the movement hands one hour, takes 60 seconds.

Art.no	Single/ Double sided	Size	Indoor/ Outdoor	Type of dial A=numerals 1-12 H=hours mark	Internal Illumination
10 41 520-00	Single sided	400 mm	Indoor	A	No
10 43 520-00	Single sided	400 mm	Indoor	H	No
10 61 520-00	Single sided	600 mm	Indoor	A	No
10 63 520-00	Single sided	600 mm	Indoor	H	No
10 91 520-00	Single sided	900 mm	Indoor	A	No
10 93 520-00	Single sided	900 mm	Indoor	H	No
11 41 520-00	single sided	400 mm	Outdoor	A	No
11 43 520-00	single sided	400 mm	Outdoor	H	No
11 42 520-50	single sided	400 mm	Outdoor	A	Yes
11 44 520-50	single sided	400 mm	Outdoor	H	Yes
14 41 520-00	double sided *)	400 mm	Outdoor	A	No
14 43 520-00	double sided *)	400 mm	Outdoor	H	No
14 42 520-50	double sided *)	400 mm	Outdoor	A	Yes
14 44 520-50	double sided *)	400 mm	Outdoor	H	Yes
11 61 520-00	single sided	600 mm	Outdoor	A	No
11 63 520-00	single sided	600 mm	Outdoor	H	No
11 62 520-50	single sided	600 mm	Outdoor	A	Yes
11 64 520-50	single sided	600 mm	Outdoor	H	Yes
14 61 520-00	double sided *)	600 mm	Outdoor	A	No
14 63 520-00	double sided *)	600 mm	Outdoor	H	No
14 62 520-50	double sided *)	600 mm	Outdoor	A	Yes
14 64 520-50	double sided *)	600 mm	Outdoor	H	Yes
11 91 520-00	single sided	900 mm	Outdoor	A	No
11 93 520-00	single sided	900 mm	Outdoor	H	No
11 92 520-50	single sided	900 mm	Outdoor	A	Yes
11 94 520-50	single sided	900 mm	Outdoor	H	Yes
14 91 520-00	double sided *)	900 mm	Outdoor	A	No
14 93 520-00	double sided *)	900 mm	Outdoor	H	No
14 92 520-50	double sided *)	900 mm	Outdoor	A	Yes
14 94 520-50	double sided *)	900 mm	Outdoor	H	Yes

\*) including bracket for either wall mounting, standing on roof or hanging from ceiling.