



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.

Technical information

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.

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.

Technical data

Power supply:

Secondary Clocks to be operated by 24VDC combined with serial Time Code from Westerstrand Master Clock or Time Central.

Sizes:

Dia. 400, 600, 800 and 900mm

Housing:

Aluminium, powder coated in RAL 850-M

Dial face:

White dial with either black numerals 1-12 (A-dial) or with black hour marks (H-dial).

Illumination:

Optional with or without LED illumination of the dial. Illumination require 230VAC.

Hands:

Black hours- and minute hand. Red sweeping seconds hand in some versions.

Protection:

Flat protection glass of polycarbonate, 4mm.

Mounting:

Single sided or double sided including bracket for either wall mounting or standing ceiling installation.

NOTE!

Different ways to mount single sided 400mm clock than 600mm-900mm clocks.

Different bracket for double sided 400mm clock than the bracket for 600mm-900mm clocks.

IP rating:

IP65

CE-approval EMC

Emission: EN 50121-4:2016, EN 61000-6-3:2007

Immunity: EN 50121-4:2016, EN 61000-6-2:2005, EN 61000-4-2, -3, -4, -5, -6, -11

Technical Specifications

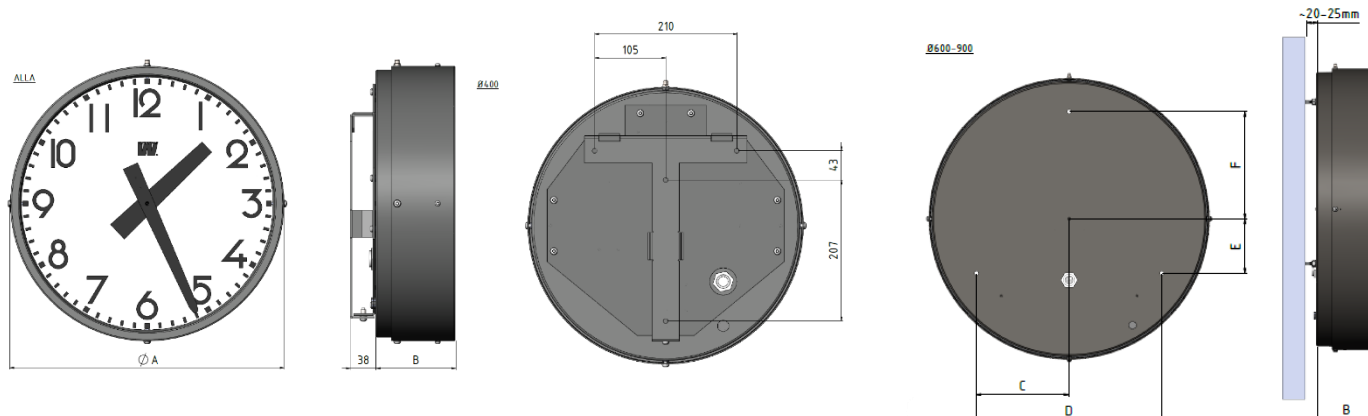
Size	Reading Distance	Seconds	Illum.	Weight	Dim Single sided (mm)							Double sided	
					A	B	C	D	E	F	G	H	I
Ø400	35m	No	No	X Kgs	407	38	97	210	105	43	207	195	407
Ø400	35m	No	Yes	X Kgs	407	38	118	210	105	43	207	195	407
Ø400	35m	Yes	No	X Kgs	407	38	97	210	105	43	207	195	407
Ø400	35m	Yes	Yes	X Kgs	407	38	118	210	105	43	207	195	407
Ø600	65m	No	No	X Kgs	621	47	105	312	156	183	156	221	635
Ø600	65m	No	Yes	X Kgs	621	47	130	312	156	183	156	221	635
Ø600	65m	Yes	No	X Kgs	621	47	105	312	156	183	156	221	635
Ø600	65m	Yes	Yes	X Kgs	621	47	130	312	156	183	156	221	635
Ø800	80m	No	No	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	No	Yes	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	Yes	No	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	Yes	Yes	X Kgs	X	47	130	X	X	X	X	X	X
Ø900	100m	No	No	X Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	No	Yes	X Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	Yes	No	X Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	Yes	Yes	X Kgs	921	47	130	450	225	272	232	221	935

Dimensions

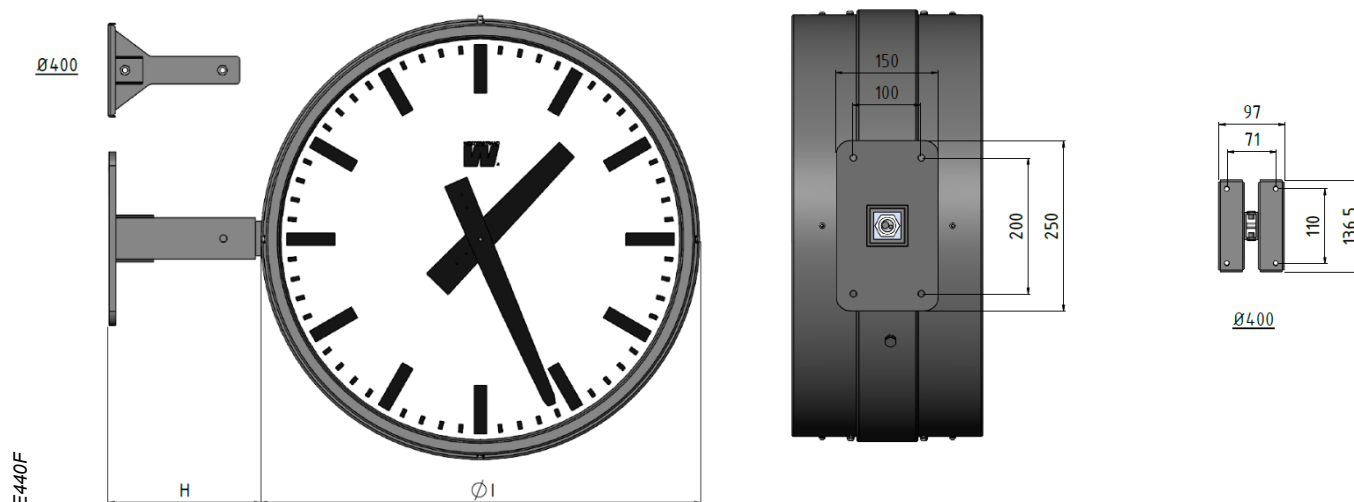
Single sided Ø 400-900

Ø 400

Ø 600-900



Double sided Ø 400-900



We reserve the right to make changes at any time

WESTERSTRAND URFABRIK AB Sweden

P.O. Box 133, SE-545 23 TÖREBODA

E-mail: info@westerstrand.se

Tel. +46 506 480 00 Fax +46 506 48051

Internet: www.westerstrand.se