



Analogue indoor Time Code Clock - Exclusive design with sweeping seconds hand



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. The Master Clock provides, in combination with the time code, also 24VDC supply to the analogue clocks. The time code from the Master Clocks charges a capacitor which stores energy in order to power the seconds hand motor. An opto sensor reads the position of the seconds hand when it is in 12-position in order to synchronize with the minutes hand. The seconds hand is sweeping and almost soundless.

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.

General

- Sizes Ø230, 300 and 400mm
- Housing in ABS-plastic, white (NCS 0502-B)
- White dial with black numerals 1-12 (A-dial), black hour marks (H-dial) or office version
- Black hour- and minute hand and red sweeping seconds hand
- Flat front cover of glass
- Single sided for surface wall mounting or double sided with mounting bracket for either wall mounting or ceiling/standing installation
- Double sided clocks consist of two single sided clocks and one bracket

Options

- Front cover in acrylic or polycarbonate
- Protection cover in acrylic or polycarbonate
- Eloxated aluminum ring/housing (see leaflet E9070)
- Console for single sided mounting
- Back in white painted aluminium for single sided mounting with console
- Mounting ring

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.

Technical Specifications

Clocks HH:MM:SS - Single sided			
Article No	Size	Dial	Weight
TS4021528-90	Ø230	A	0,9 Kgs
TS4023528-90	Ø230	H	0,9 Kgs
TS4031528-90	Ø300	A	1,2 Kgs
TS4033528-90	Ø300	H	1,2 Kgs
TS4041528-90	Ø400	A	2,0 Kgs
TS4043528-90	Ø400	H	2,0 Kgs

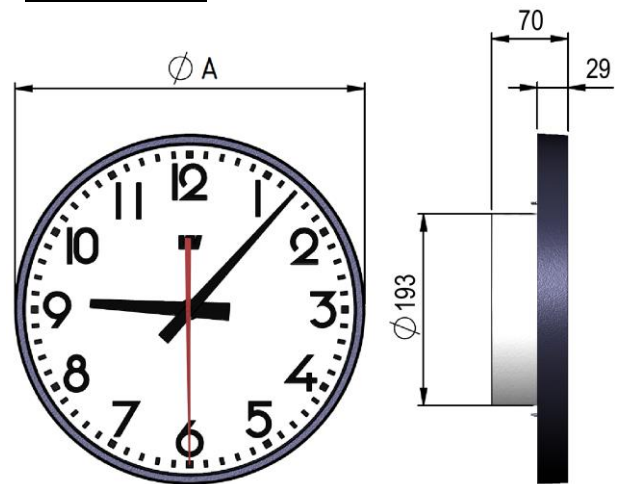
Bracket / Back cover			
Article No	Type	Version	Weight
B161375-00	Bracket	Ø230	0,3 Kgs
B161372-00	Bracket	Ø300	0,4 Kgs
B161373-00	Bracket	Ø400	0,5 Kgs
BC161595-00	Back cover	-	0,1 Kgs

Bracket arm in aluminium profile, back cover in white painted aluminium

Technical Data

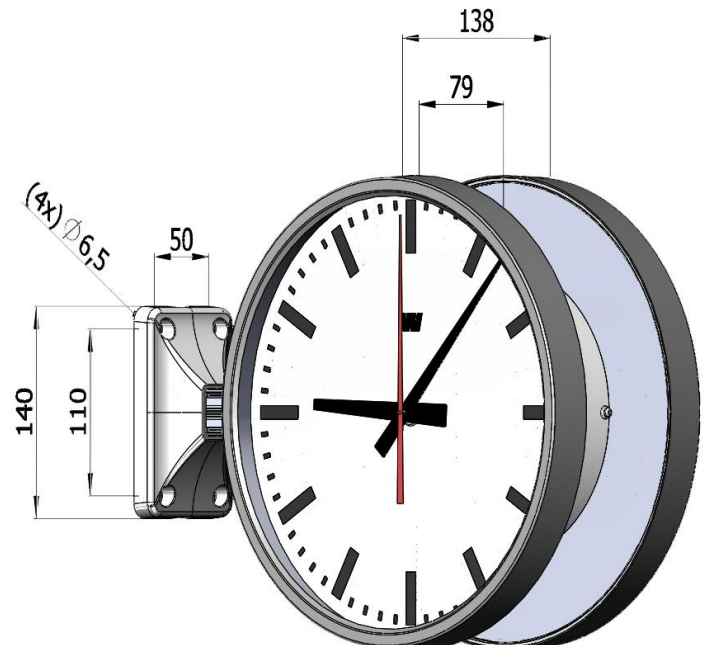
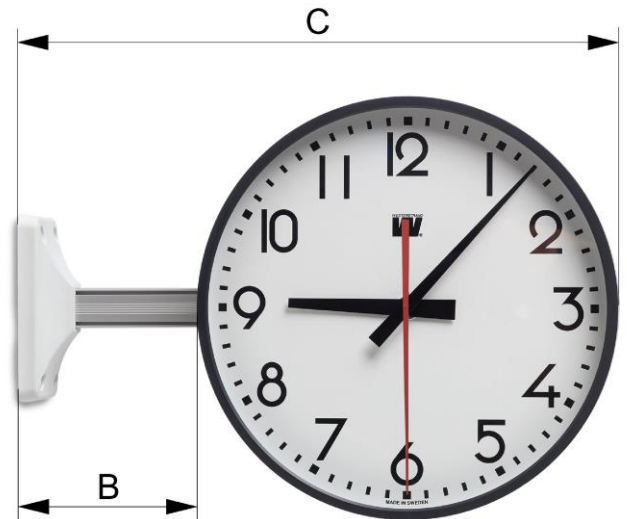
Power Consumption: 12mA/side
 Operating Temp: 0 to +40°C
 Relative Humidity: max 95%
 IP rating: IP20
 Reading distance:
 Ø230: 10m
 Ø300: 20m
 Ø400: 25m

Dimensions



Slave Clocks	A	B	C
Ø230	236	120	356
Ø300	309	135	444
Ø400	410	145	555

All measurements in mm.



We reserve the right to make changes at any time.