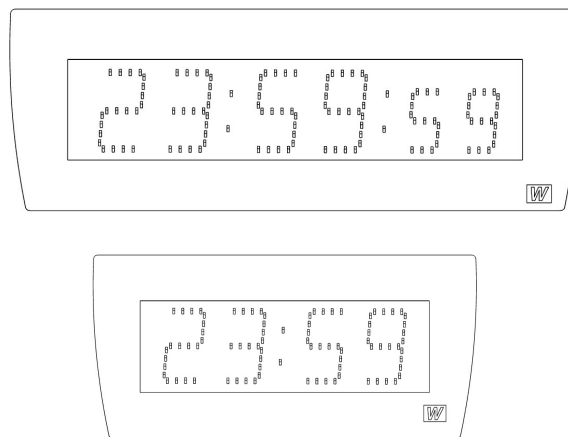
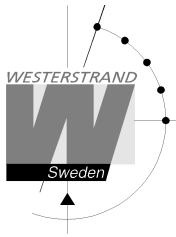


Instructions

AUREA III





General

Digital clock is for indoor application with second has 6 digits and colon displaying time.

Digital clock is for indoor application without second has 4 digits and colon displaying time.

The digits for the second consist of 7 segments.

The Digital clock can be programmed for alternating time/temperature/date display in 0-25 sec intervals.

Temperature sensor is not included. It is an option.

The programming of time, Synchronisation and light intensity are made by push buttons, located at one side of the cover.

The digital clock can operate stand alone with a built in quartz crystal as time reference, as a slave clock to a master clock transmitting 24 V polarised 1/1 minute impulses or synchronised by TC, DCF.

If the DLS-function is set, the clock is changing, summer and winter time, the last Sunday in March and the last Sunday in October automatically.

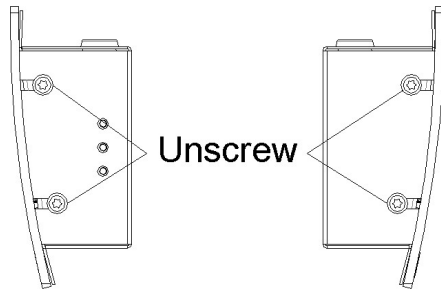
The clock has adjustable light intensity.

If power failure occurs the display is turned off. The internal clock continues to keep the correct time for 48 hours. After power failure the display is turned on and correct time is shown.

If not specified in order the clocks are preset from factory in impulse Synchronisation mode.

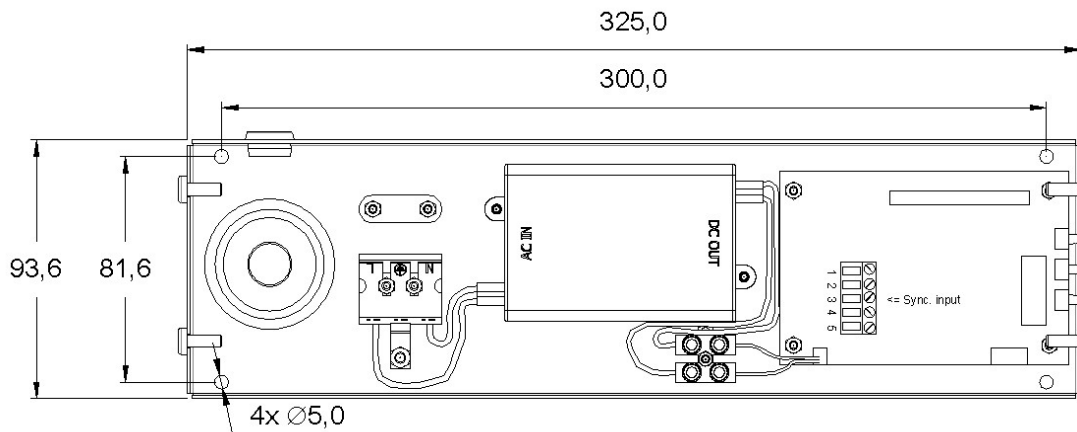
Installation wall mounted

- Unscrew 4 screws, 2 pieces at each side.

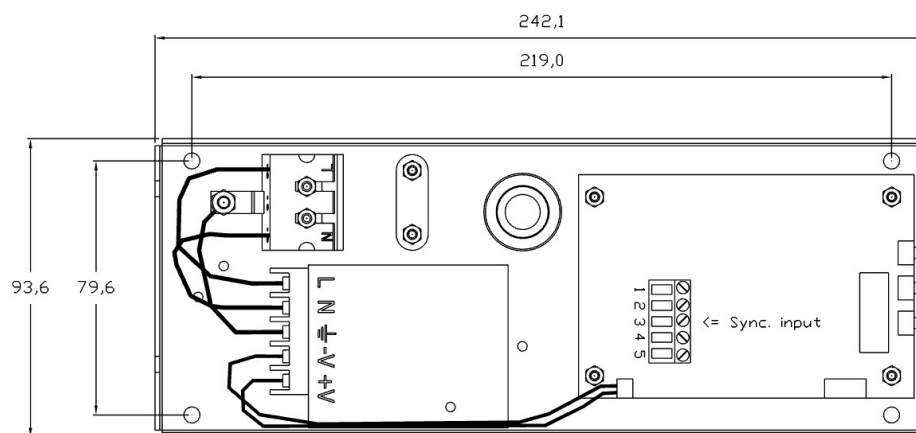


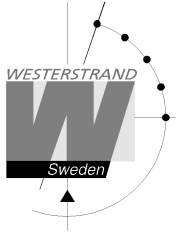
- Remove the back plate from the casing and mount it on the wall using 4 screws suitable for the wall material.

AUREA III with second



AUREA III without second



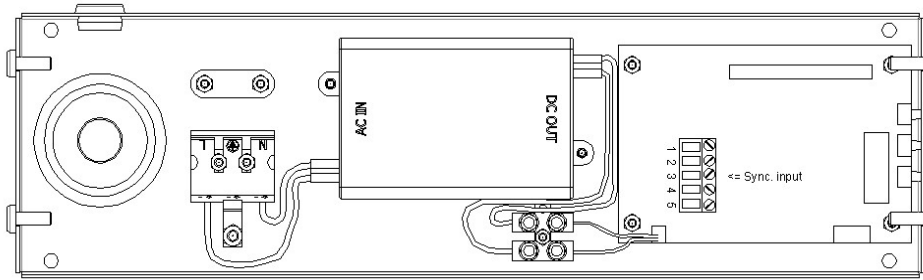


- If operated by synchronisation, check the strapping according to the drawing pages 7 and page 8. Connect the cables according the schema page 5 or 6.
- Connect the power 230VAC, 50Hz. according the schema page 5 or 6. When the clock is permanently installed a readily accessible disconnect device shall be incorporated in the fixed wires (2-polar, 3mm contact gap).
- Connect the flat ribbon cable and assemble the front.
- Set the digital clock. See Programming.

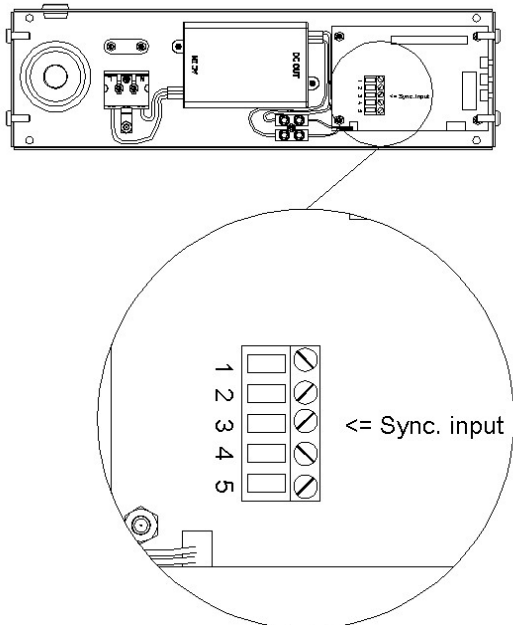
Connection

The connections are made on the inside of the back plate (see below.)

AUREA III with second



Connection Synchronisation wire



TC/MIN-imp 3,4

DCF 2-line 3 – V+, 5 – GND

DCF 3-line 3 – V+, 4- DCF, 5 – GND

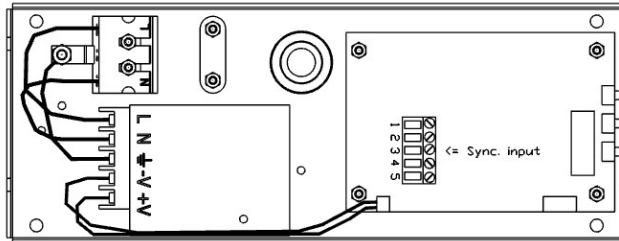
WESTERSTRAND URFABRIK AB

P.O. Box 133
SE-545 23 TÖREBODA

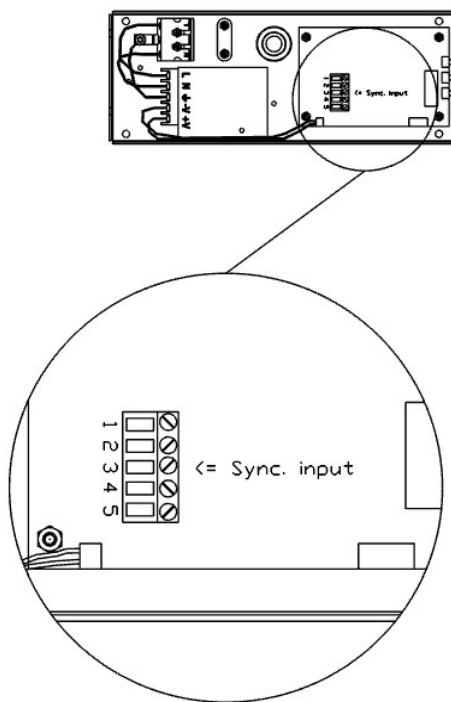
Tel. +46 506 48000
Fax. +46 506 48051

Internet.: <http://www.westerstrand.se>
E-mail: info@westerstrand.se

AUREA III without second



Connection Synchronisation wire



TC/MIN-imp 3,4

DCF 2-line 3 – V+, 5 – GND

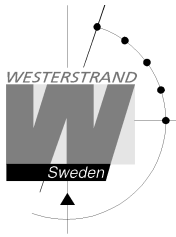
DCF 3-line 3 – V+,4- DCF, 5 – GND

WESTERSTRAND URFABRIK AB

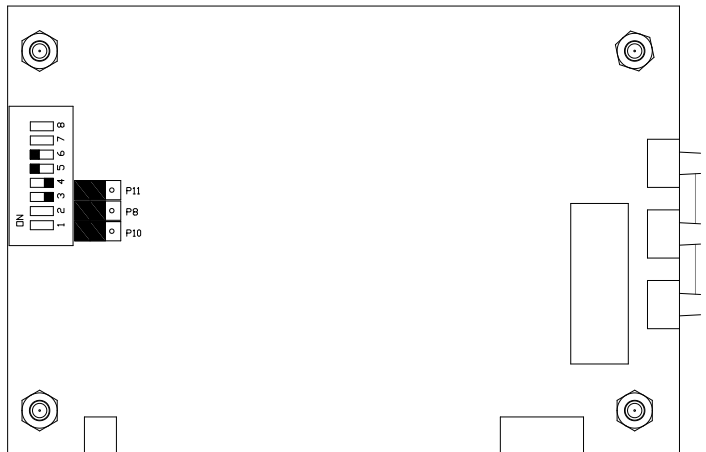
P.O. Box 133
SE-545 23 TÖREBODA

Tel. +46 506 48000
Fax. +46 506 48051

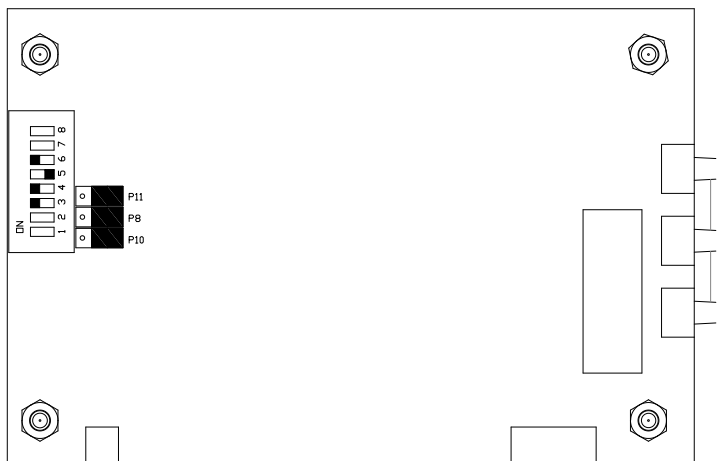
Internet:: <http://www.westerstrand.se>
E-mail: info@westerstrand.se



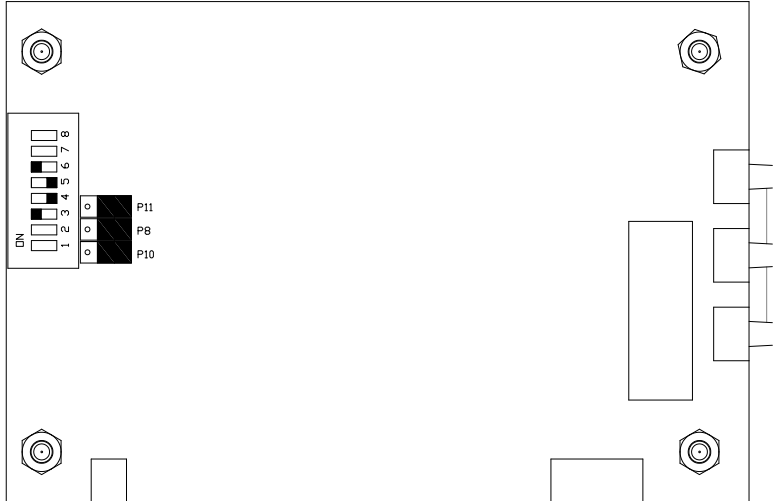
Strapping/DIP switch setting for TC / MIN-impulse (default)



Strapping/DIP switch setting for DCF-radio (2 –wire) computer board

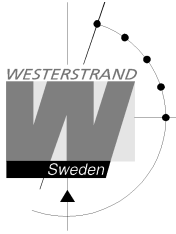


Strapping/DIP switch setting for DCF-radio (3 –wire) computer board



The DIP-switch on the computer board should be set as follows:

Dip 1:	OFF ON	Display format is HH:MM. Display format is HH:MM:SS.
Dip 2:	OFF	always OFF
Dip 3:	OFF ON	TC/Min impulse-synchronisation. (default) DCF synchronisation.
Dip 4:	OFF ON	TC/Min impulse or 3-wire DCF synchronisation. (default) 2-wire DCF synchronisation.
Dip 5:	OFF ON	DCF synchronisation. TC/Min impulse synchronisation.(default)
Dip 6:	OFF ON	½ Min impulse synchronisation. TC/Min impulse synchronisation or DCF synchronisation. (default)
Dip 7:	OFF	always OFF
Dip 8:	OFF	always OFF



Synchronisation

Stand-alone

If the clock does not have an external synchronisation, it operates Stand-alone.

Minute impulse

Make the strapping according to the drawing for strapping page 7.

Connect the minute impulse wire according to the schema page 5 or 6.

The clock can be set in synchronisation or slave mode.

Synchronisation mode:

Set the clock for synchronisation, mode InSy See programming page 11.

Set time and wait for next minute impulse. The clock will be synchronised

Slave mode:

Set the clock for slave, mode InSL See programming page 11.

Set time and wait for next minute impulse. The clock operates as a slave clock.

TC

Check the strapping according to the drawing for strapping page 7.

Connect the TC wire according to the schema page 5 or 6.

Set the clock for synchronisation, function DCF See programming page 11.

When a correct time message appears the clock sets the time.

The clock will blink colon when it is in sync and accepts transmitted code.

DCF

Check the strapping according to the drawing for strapping page 8.

Connect the DCF wire according to the schema page 5 or 6.

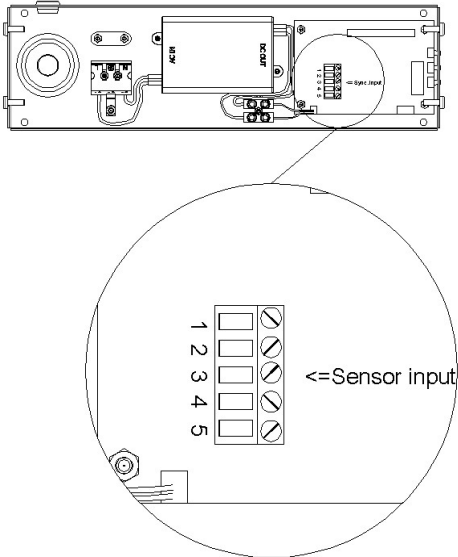
Set the clock for synchronisation, function DCF See programming page 11.

When a correct time message appears, the clock sets the time.

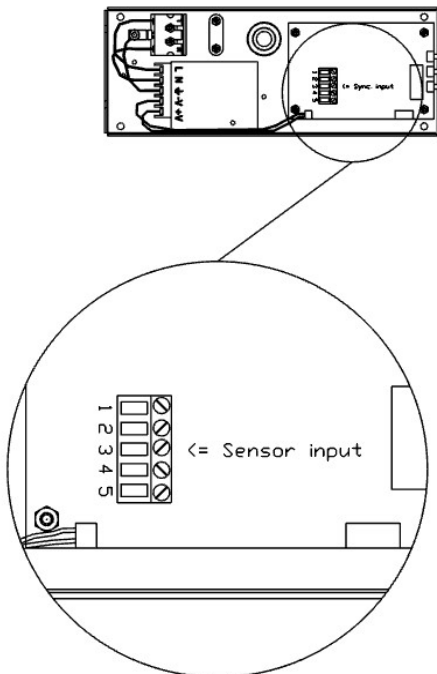
The clock will blink colon when it is in sync and accepts transmitted code.

Connection temperature sensor (this is an option).

AUREA III with second



AUREA III without second

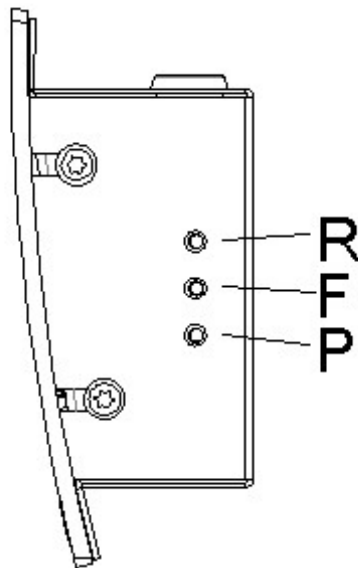


Temperature sensor connection

1. Brown
2. Black
5. Screen

Programming

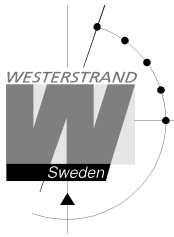
The programming is made by push buttons (see below).



R (Return) Enter the base mode (display time)

F (Function) Next function / Accept displayed value

P (Program) Enter the displayed function / Increase displayed value.



programming time

Push [F] until display shows:

Push [P] display shows: year.

Push [P] until desired year (00-99)
Accept with [F].

Display shows: month.

Push [P] until desired month (1-12).
Accept with [F].

Display shows: day

Push [P] until desired date (1-31).
Accept with [F].

Display shows: hour

Push [P] until desired hour (0-23). Accept with [F].

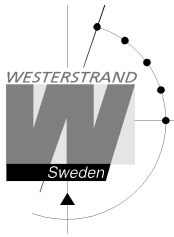
Display shows: minute

Push [P] until desired minute (00-59). Push [F] for synchronisation and the clock starts

Display shows:

Push [R]. The Programming is finished.

Display shows:



Setting light intensity

The light intensity for the digits can be adjusted in 8 levels.
An automatic dimmer function regulates the light intensity.

Push [F] until display shows:

di sp

Push [P]

Display shows:

di 1

. Light intensity 1 (weakest) - 8 (strongest)

Push [P] for desired light intensity. Accept with [F].

Display shows:

Sy nc

Push [R] for entering base mode or push [F] for next function.

Setting synchronisation

Synchronisation for this model is minute impulse, TC, DCF (or stand alone).

Push [F] until display shows:

Sy nc

Push [P] until desired synchronisation.

no sy

No synchronisation, stand alone

dcf

TC or DCF

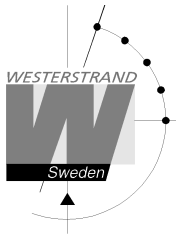
InSy

Impulse synchronisation

InSL

Impulse slave

Push [R] for entering base mode or push [F] for next function.



Setting alternating time, Loop time

Push [F] until display shows: LooP

Push [P].

Display shows: L1 4 Alternating time for display time is 4 seconds.

Push [P] for desired alternating time (0-25). Accept with [F].

Display shows: L2 0 Alternating time for display temp. is 0 seconds.

Push [P] for desired alternating temperature (0-25). Accept with [F].

Display shows: L3 4 Alternating time for display date is 4 seconds.

Push [P] for desired alternating time (0-25). Accept with [F].

Push [R] for entering base mode or push [F] for next function.

Setting Correction value for the temperature sensors.

With this function the temperature sensors can be adjusted $\pm 9\text{ }^{\circ}\text{C}$.

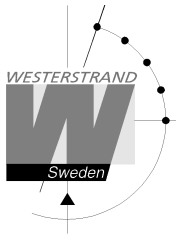
Push [F] until display shows: Corr

Push [P]:

Display shows: C1 0

Push [P] for desired correction value ($\pm 9\text{ }^{\circ}\text{C}$). Accept with [F].

Push [R] for entering base mode or push [F] for next function.



Setting DLS-function.

With this function the DLS can be activated.

Push [F] until display shows:

Push [P].

Display shows:

Or:

Push [P] for DLS or not.

Push [R] for entering base mode or push [F] for next function.

Setting 12/24 h format.

With this function the format 12/24 hours display can be set.

Push [F] until display shows:

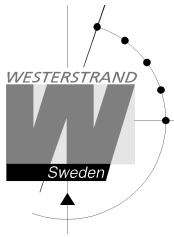
Push [P].

Display shows: 12 hour format

Or: 24 hour format

Push [P] for desired format.

Push [R] for entering base mode or push [F] for next function.



Technical specification

Mains	90-264 VAC, 50/60 Hz
Rated Connection Current:	0.4 A (HH:MM:SS) 0.35 A (HH:MM)
Temperature range	0° - +40° C
Size of digits HH:MM	50 mm, red, green, yellow SMD LED:s
Size of digits :SS	37 mm, red, green, yellow SMD LED:s
Synchronisation	Polarised 24V impulse 1/1, TC, DCF
Accuracy	± 0.1 sec/24 hour
Dimensions(WxHxL)	371x131x57mm (HH:MM:SS) 276x131x57 (HH:MM)
Running reserve	48 hour
Changing Summer/ Winter	Last Sunday in march, last Sunday in October.
Measure range temperature sensor	-30 ° - +60°
Accuracy temperature sensor	± 1 ° C
Temperature measurement	Once per minute

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