

# User Manual

## Analogue impulse clock

### SM1110xx-xx, SM1610xx-xx, SS1612xx-xx





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## General

Westerstrand impulse system uses a 24VDC polar impulse to control and operate connected clocks (often called slave clocks). The impulses are distributed by the master clock or time centrals of various design and performance. The clocks are connected in parallel to the master clock/time central via a two-wire cable.

## Installation

### Clock installation for minute impulse clock

1. When pulse cable coming out from the wall, ensure that cable output is positioned in the shaded area. See fig.2 page 3.
2. When pulse cable wall mounted use the cable inlets. See fig 2. Page 3.
3. Measure and assemble an appropriate mounting screw (not included). We recommend a  $\varnothing$ 5mm and 25mm long screw.
4. Install impulse cable in movement connector see fig. 3.
5. Mount the clock on the wall. Check that it hangs securely on the screw.
6. Start master clock/time central and do the setting according to the manual for master clock/time central.
7. When movement has stopped, check that the hands are at correct time.
8. If minute hand is one minute fault, change polarity at movement impulse connector. See fig.3 page 4.  
Then move the hands 2 steps forward by the adjustment screw on the movement. (See fig 2 page 3.)

### Clock installation for second impulse clock

1. When pulse cable coming out from the wall, ensure that cable output is positioned in the shaded area. See fig.2 page 3.
2. When pulse cable wall mounted use the cable inlets. See fig 2. Page 3.
3. Measure and assemble an appropriate mounting screw (not included). We recommend a  $\varnothing$ 5mm and 25mm long screw.
4. Install impulse cable in movement connector see fig. 3.
5. Mount the clock on the wall. Check that it hangs securely on the screw.
6. Start master clock/time central and do the setting according to the manual for master clock/time central.
7. When movement has stopped, check that the hands are at correct time.
8. If second hand is one second fault, change polarity at movement impulse connector. See fig.3 page 4.
9. Then move the hands 2 steps forward by the adjustment screw on the movement. (See fig 2 page 3.)

Fig. 2

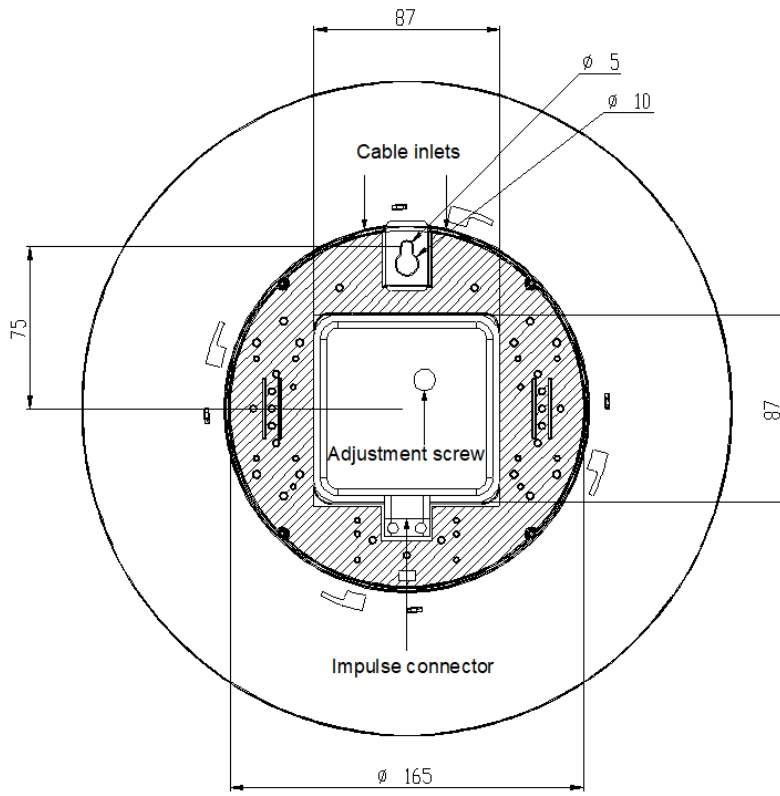
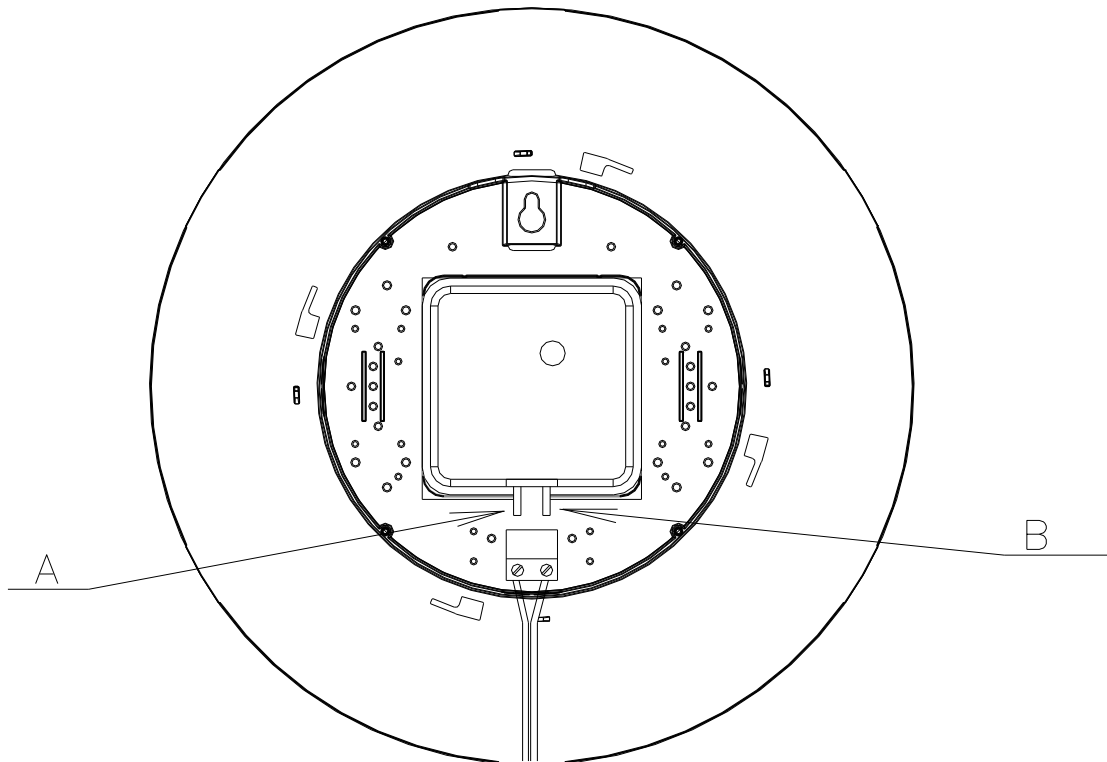


Fig.3

REAR VIEW



Polarisation rule for minute impulse clock:

If A is positive (+) with respect to B, the minute hand will go to even minute.  
If B is positive (+) with respect to A, the minute hand will go to odd minute.

Polarisation rule for second impulse clock:

If A is positive (+) with respect to B, the second hand will go to even second.  
If B is positive (+) with respect to A, the second hand will go to odd second.



## Technical Specification

### General

Art.no.:	SM1110xx-xx, SM1610xx-xx, SS1612xx-xx
Name:	Analogue Impulse clock
Hands:	Black hour- and minute hands. If mounted red second hand.
Weight:	Single sided Ø230mm: 0,8 kg Single sided Ø300mm: 1,1 kg Single sided Ø400mm: 1,8 kg
Time format:	12-hour format.

### Power supply

Supply voltage:	24VDC
Power consumption:	7mA/side

### Environmental

Temperature range:	0°C to +40°C.
IP class:	IP 20
Humidity range:	20-90%RH, non-condensing

### Housing

Housing:	Plastic
Fastening screw:	Ø5mm and 25mm long