



### **TZN30MSK**

## Analogue slave clock with second hand for indoors

Time indication:	Analogue
Shape:	Round
Size:	313 mm outside diameter
Case ring:	Anodised aluminium, total depth 70 mm
Dial:	White, black Arabic numerals 1...12
Hands:	Aluminium, slim conical, hours and minutes black, sweeping seconds hand red
Protection cover:	Flat front cover of glass
Movement:	Slave movement
Current consumption:	25 mA at 24 V DC
Operation mode:	24 V DC polarised minute impulses
Use:	Indoors
Option:	Double sided version with ceiling or wall bracket

### **Functional Description**

The minute impulse from master clock charges via a DC/DC converter a capacitor which stores energy in order to drive the seconds hand motor and for power supply of the electronics.

An opto sensor reads the position of the seconds hand and provides a signal to the electronics when the seconds hand is in position "12:00".

Then the electronics check that seconds hand is in position "12:00" simultaneously as the minute impulse is distributed.

#### **Advantages:**

- + No extra wires to drive the seconds hand - less expensive costs for installation.
- + Seconds hand also in operation during power failure.
- + Easy to adapt to existing installations.
- + Almost noiseless seconds hand.

#### **At installation and after a power failure:**

Please note that the charging of the capacitor, which stores energy in order to drive the seconds hand motor, takes approximately 5 to 10 impulses before the seconds hand will start to move.

