



TZTC23

Self setting analogue slave clock for indoors

Time indication:	Analogue
Shape:	Round
Size:	236 mm outside diameter
Case:	ABS plastic (anthracite grey RAL 7016)
Dial:	White, black Arabic numerals 1...12
Hands:	Aluminium, slim conical, hours and minutes black
Protection cover:	Flat front cover of glass
Movement:	Intelligent time code movement
Current consumption:	7.5 mA
Power supply:	24 V DC via slave clock line
Use:	Indoors
Option:	Double sided version with ceiling/wall bracket

Functional Description

Time Code:

Those analogue clocks type „time code“ are operated and controlled by serial time code (containing information about year, month, day, hour and minute) from Schauer Master Clock MPU-TC/BMC with time code output. This type of Master Clock provides, in combination with the time code, also 24 V DC 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 24 V DC 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 24 V DC impulses, is easily made as the existing cable can be used.

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. Example: to rapidly forward the movement hands one hour, takes 60 seconds.

