



Transmitter/Repeater

Connect the transmitter to the Master Clock.

Please note that the cable connector is detachable to make it easier to connect the cable. The connector can be plugged in two different ways, horizontal or vertical.



123388-10 Transmitter

The FSK-transmitter is a part of Westerstrand Wireless Clock System, a fully automatic system for wireless control of analogue and digital clocks.

The transmitter is a UHF crystal-based FSK transmitter using the licence free ISM band.

The transmitter is intended for connection to a QWTIME III Master Clock.

A time message is transmitted each 10th second using the Master Clocks serial port. The connection between Master Clock and transmitter is done via RS232 or RS485. Default setting is RS232.



123389-10 Repeater

The repeater is built with a receiver and a transmitter. The repeater receives a time message from the main transmitter, amplifies it and then sends it out again.

In order to prevent collision between time messages in the air so-called time multiplex is used, i.e. main transmitter sends out its message in 01 seconds, 11, 21, 31, etc.

The first repeater sends in seconds 02, 12, 22, etc. Next repeater sends in seconds 03, 13, 23, etc.

Each repeater is individually addressed by means of a switch (DIP switch).

Technical data 123388-10 - Transmitter

Operating frequency	869.525 MHz
Conducted RF power	Selectable, 25 mW (+14dBm), 100 mW (+20dBm), 500 mW (+27dBm).
Modulation	FSK (Frequency Shift Keying)
Transmission range	Depending of the buildings construction, number of floors and wall etc.
Indoor	100 – 200 m
Outdoor	1000 m
Connection	RS232 + power
Power supply	36V (from Master Clock)
Temperature range	-20° C to +50° C
Size	114 x 64 x 30 mm (360 x 64 x 75mm incl. mounting bracket and antenna.
Standards	EN301489-1, -3, EN300220 och EN60950-1.
Connection to Master Clock	3 m cable included. For longer distance:
Cable length < 30m	2-core signal/telecom cable, 2 x 0,22 mm ² . (24AWG)

Technical data 123389-10 - Repeater

Operating frequency	869.525 MHz
Conducted RF power	Selectable, 25 mW (+14dBm), 100 mW (+20dBm), 500 mW (+27dBm).
Modulation	FSK (Frequency Shift Keying)
Transmission range	
Indoor	100 – 200 m
Outdoor	1000 m
Power supply	230V AC via mains adapter
Temperature range	-20 C to +50 C
Size	114 x 64 x 30 mm (360 x 64 x 75mm incl. mounting bracket and antenna.
Standards	EN301489-1, -3, EN300220 och EN60950-1.

We reserve the right to changes at any time.