

Time synchronisation DHF radio transmitter SIGMA V2 907512

The HF (869MHz) radio transmitter sends the time code that it receives from the master clock. The 869 MHz radio waves go through building walls: the coverage is about 100 to 200 metres and depends on the number, structure and thickness of the walls. The DHF wireless time distribution uses a secured digital transmission to avoid interferences with other transmissions. The DHF transmitter has 3 adjustable power levels to fit the configuration of the installation.

Specifications :

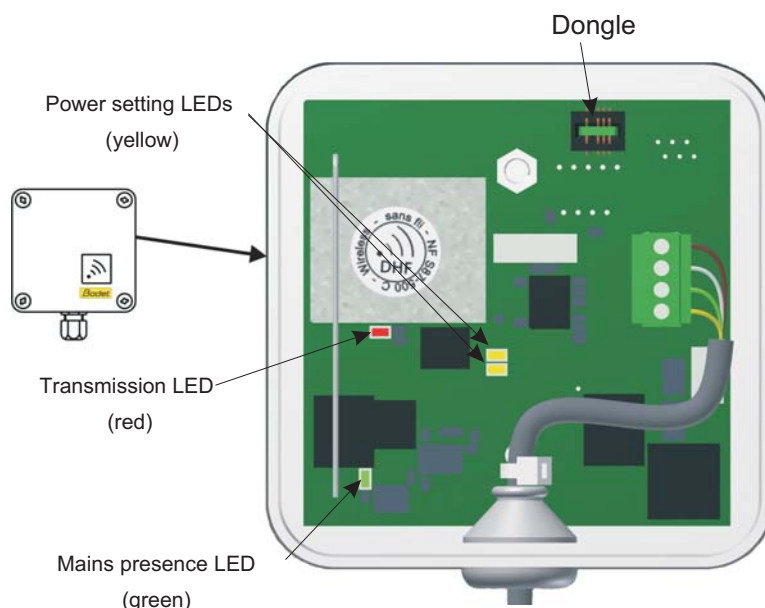
Indoor use or outdoor under cover.
 Power supply : 9-40 V DC SELV.
 Maximum current : 0,7A max.
 Electrical insulation : Class III
 Operating temperature : -10°C / +50°C
 Radio frequency HF 869,525 MHz.
 The transmitter is delivered with a 5m cable that can be extended up to 15m.

Green LED: mains presence.
 Red LED: DHF transmission.
 Yellow LEDs: transmission power,
 lower LED : 25 mW,
 upper LED: 125 mW,
 both LEDs: 500 mW.

This system is compliant with :

EN 60950 (2006).
 EN 301-489-3 (V1.4.1).
 EN 300-220-2 (V2.3.1).
 EN 62311 (2008).
 NFS 87-500-C.

See Declaration of conformity at : <http://www.bodet.fr/espace-clients/certificats.html>



Brown : SDA(Com DATA),
 White : SCL (Com Clock)
 Green wire + braid: GND
 Yellow : +VCC.

For outdoor installation without cover, put the DHF transmitter in a waterproof plastic case IP55 protected against rain and sun.

What to do if ... ?	Some clocks are not synchronised.	Check that the clocks are in "initialisation" mode. Increase the transmission power of the transmitter (See 4).
	Transmission power set to the maximum, some clocks are still not synchronised.	Add a repeater (See 6).
	You are close to an existing wireless clock system.	Change the transmission channel (See 4).
	You want to add clocks.	Set the transmitter in "initialisation" mode (See 3). Install the clocks. When synchronisation is completed, switch the transmitter back to "normal" mode.
	An analog clock remains at noon or digital one at 00h00.	The reception is poor See (6).
	An analog clock is blocked to a fixed time or a cristalys clock is off.	Change the batteries.



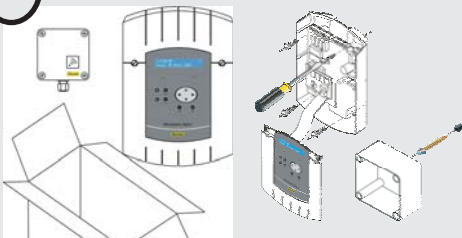
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Ref.: 607175 A



Start up instructions

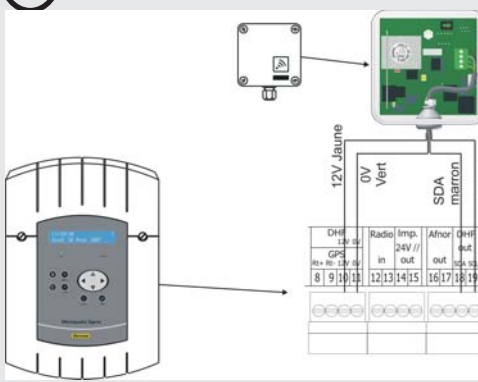
1



Mount the master clock and the transmitter. Avoid installing in basement or places with interferences. Under no circumstances the transmitter should be mounted directly on a metallic surface.

Unpack and check that the equipment is in good condition.

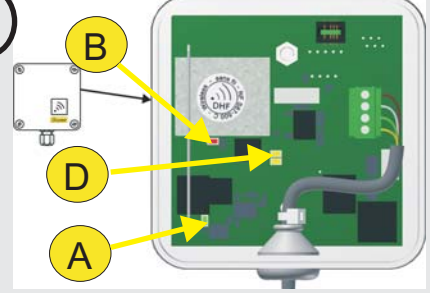
2



Connect the transmitter to the master clock.

DHF	12V	Imp.	Radio	Imp.	Adhor	DHF					
12V	24V	24V	in	out	out	out					
8	9	10	11	12	13	14	15	16	17	18	19

3

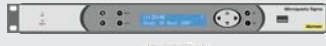


When powering up the master clock and the DHF transmitter for the first time:

- The green LED A (power supply) should be ON,
- The yellow lights D (indicator of the level of transmission power) show the level 125mW,
- The red LED B (DHF emission) should be OFF.

The transmitter is configured and activated directly from the clock Mother SIGMA.

4




Activation of the transmitter:
To activate the transmitter, you must configure the SIGMA (Technician menu, Time outputs and DHF output) by setting :

- Power level (25, 125 or 500mW),
- The address of the DHF sender,
- Activation of the DHF output.


Installation of DHF slave clocks :
To proceed with the installation of DHF slave clocks, you must put the transmitter in INIT mode (in the Sigma). This mode is active for 4 hours, after that the transmitter returns to NORMAL operation.

5a



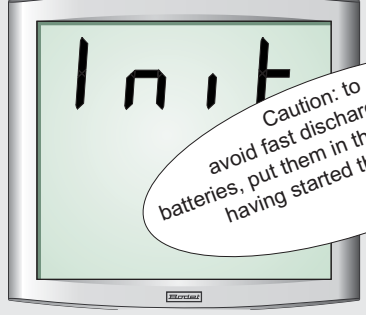
The transmitter is supplied with a dongle. This component includes the parameters required to control of the wireless Melodyds and relays. If the transmitter has to be replaced, keep this dongle for the new the transmitter.

5a Opalys clock



Place yourself where the clock will be installed. Connect the clock to the mains and apply the power. The clock first displays "Init" and then "00:00" while it waits for synchronisation.


5b Cristalys clock



Place yourself where the clock will be installed. Put the batteries in. The clock first displays "Init" and then "00:00" while it waits for synchronisation.

Caution: to avoid fast discharge of the batteries, put them in the clock only after having started the transmitter.

5c Profil clock



Place yourself where the clock will be installed. Put the batteries in. When inserting the batteries, the hands are set to 4, 8 or 12 h. When the clock will get the DHF signal, it will automatically synchronise.

5d Style clock



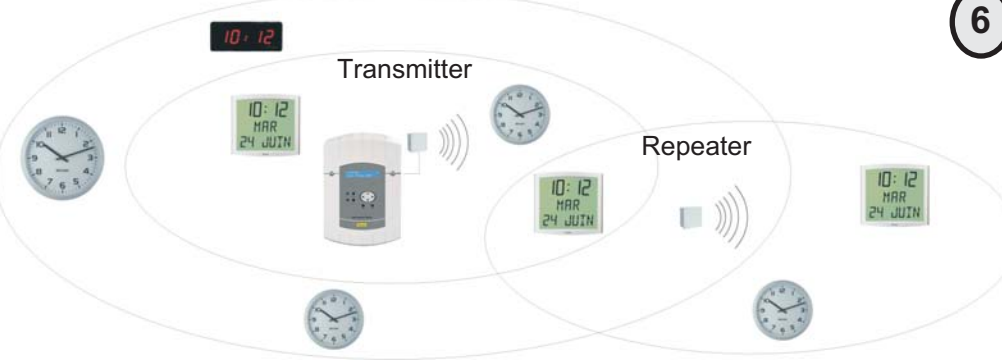
Connect the clock to the mains and apply the power. The clock displays 00:00 SAM 1 JANV while it waits for synchronisation.

5e DHF relay



Place yourself where the relay will be installed. Set the circuit number, connect the mains and apply the power. The relay is in "Init" mode, the orange LED will blink until synchronisation is achieved. To set the relay in "Init" again, change the position of the DIP 1.

6



Transmitter

Repeater

If the transmitter does not cover the whole area, install a repeater V2 (ref.: 927241).