

6.2 SETTING THE TRANSMITTER INTO SERVICE

Before starting the EM 9009 or EM 9009 A transmitter, check the following:

For version A only, the mains switch on the rear panel of the unit should be at "0". The mains cord on J1 is to be connected with the mains.

On EM 9009 or EM 9009 A, J6 socket is linked to a dc voltage source.

The On/Off switch on the front panel of the unit should be positioned downward.

The RF output on the rear panel should be connected to an antenna or a 50 ohms load.

To start the EM 9009 transmitter proceed as follows:

Keep the On/Off switch at upward position.

Check that the "24 V" and "ALARM" indicators illuminate. After a few seconds the "ALARM" indicator switches off.

If the transmitter is connected to 50 ohms load, press the "TEST" key and check that "TRANSMIT" indicator illuminates.

Release "TEST" button and connect the transmitter to an antenna: EM 9009 is then ready to transmit.

Before starting the EM 9009 A or EM 9000 transmitter, check the following:

Keep the mains switch in the back of the unit at position "I" and check if the "MAINS" indicator is illuminated.

If the transmitter is linked to a dc voltage source, check that the "BATTERY" indicator is illuminated.

Keep the On/Off switch at the upward position.

Check that the "24 V" and "ALARM" indicators illuminate. After a few seconds the "ALARM" indicator switches off.

If the transmitter is connected to 50 ohms load, press "TEST" key and check that "TRANSMIT" indicator illuminates. Release "TEST" button and connect the transmitter to an antenna: EM 9009 is then ready to transmit.

6.3 **OPERATING SETTINGS**

6.3.1 **Introduction**

This chapter deals with the operating settings required for preventive maintenance.

Recommended measuring devices:

*Precision Frequency meter < 0.1 p.p.m.
For instance, 53181 A H.P model (option 010 – High stability)*

6.3.2 **Operation verification**

Connect and switch on the transmitter (see CHAPTER 6).

Enable the internal test using a PGM 9000 programmer (see specific guide) or an ASCII terminal (see CHAPTER 5, § 5.2.25 – TEST Command).

Analyze the test results.

6.3.3 **Frequency verification**

Connect and switch on the transmitter (see CHAPTER 6).

Connect a frequency meter on the RF TEST socket (BNC type) of the front panel (see § 7.1).

Enable the "remote On/Off command" on the operating connector (contact to ground), next switch the transmitter to transmission with the "remote PTT command" which is also on the Operating connector (contact to ground).

Verify that the frequency read matches the transmitter operating frequency ± 1 p.p.m.

If frequency is out-of-tolerance, see next paragraph (Frequency adjustment).

6.3.4 **Frequency adjustment**

The unit is switched off. Remove the top cover and switch on the transmitter.

Adjust the frequency with R586 potentiometer in synthesizer block (see PLATE 5h). The hole in the shield cover of this block is there for this use.

Switch off the transmitter. Put the top cover of the transmitter back.

CHAPTER 7 DIAGRAMS

PLATE 0	MECHANICAL VIEWS
PLATE 1	GENERAL BLOCK DIAGRAM
PLATE 2	FRONT AND BACK VIEW (EM9009A)

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PL 0

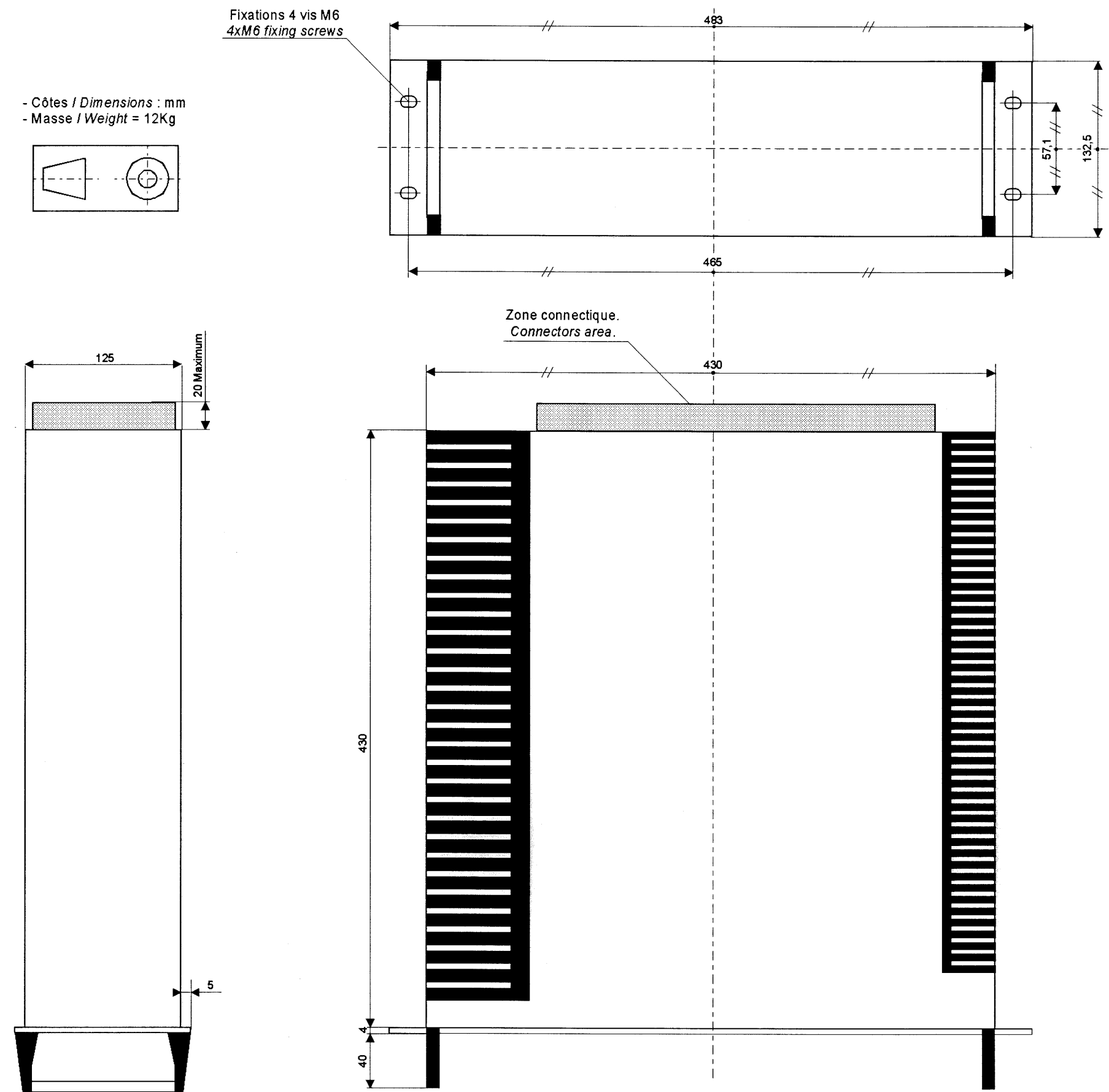
EM 9009 A

Encombrements mécaniques / Masse

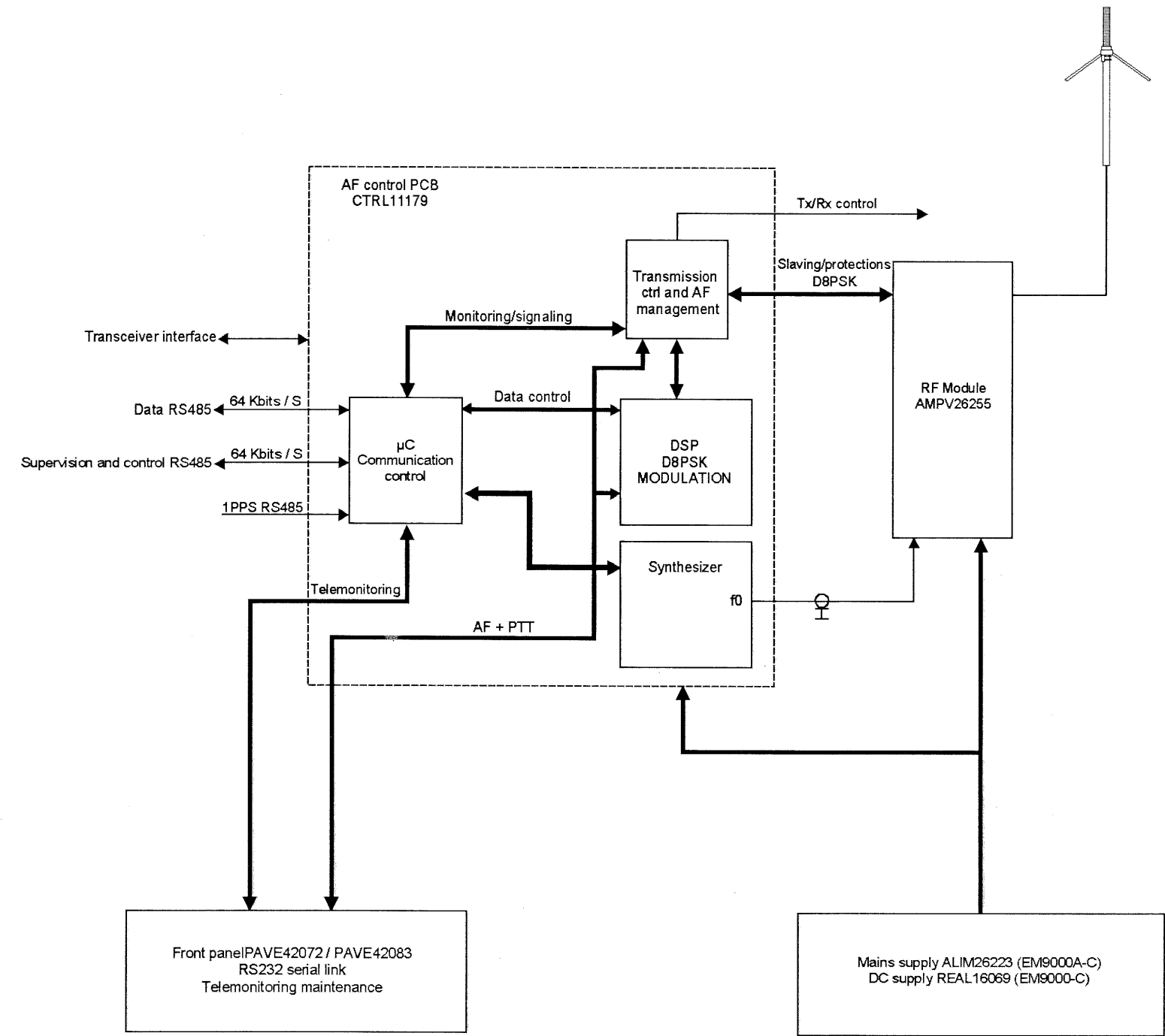
Mechanical dimensions / Weight

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5457								
PL 1								
<p>EM 9009 - EM 9009 A GENERAL BLOCK DIAGRAM</p>								
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Front view



Rear view

