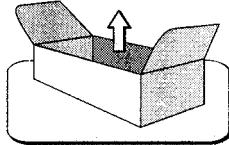


Section 2 - Installation

Contents:

- 2.1 Operating environment*
- 2.2 Preliminary operations*
- 2.3 Telemeasuring socket connections*
- 2.4 RS232, RS485 and AGC socket connections*
- 2.5 Preventive maintenance*
 - Front panel*
 - Rear panel*



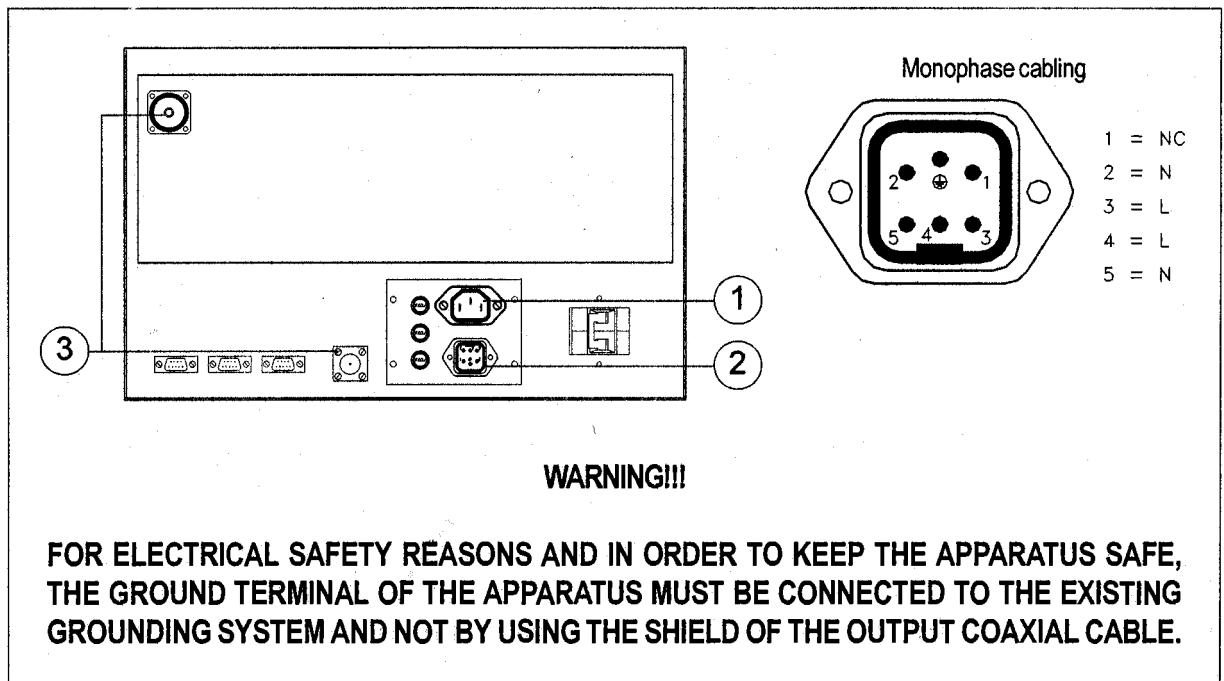
2.1 OPERATING ENVIRONMENT

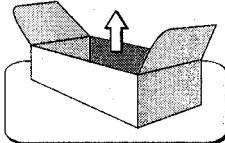
You can install the apparatus in a standard component rack or on a suitable surface such as a bench or desk. In any case, the area should be as clean and well-ventilated as possible. Always allow for at least 2 cm of clearance under the unit for ventilation. If you set the apparatus on a flat surface, install spacers on the bottom cover plate. If you install the apparatus in a rack, provide adequate clearance above and below. Do not locate the apparatus directly above a hot piece of equipment.

2.2 PRELIMINARY OPERATIONS

Correct installation of the equipment is important for maximum performance and reliability. Antenna and earth connections must be installed with the greatest care. The equipment adjustment isn't need, because the unit is completely adjusted by our technical staff. This is the installation procedure:

1. connect the power supply cable of the exciter to the auxiliary socket on the rear panel of the amplifier;
2. connect the power supply cable of the amplifier to the electric network (230VAC). If there is the Isolator Transformer, the amplifier is provided with cable and plug;
3. connect the exciter / antenna cables respectively to the RF IN and RF OUT on the rear panel of the amplifier.



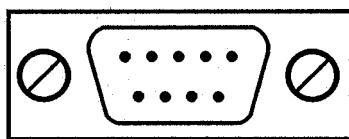


When the apparatus is put within a combined system it is directly connected to the input splitting and output combining systems.

Before fully powering the apparatus, check that the output connections of the coaxial cable to the antenna system are working.

In order to this it is possible to check the indication of the reflected power at low power levels. Only if the SWR indication on the display is 0, the output power can be slowly increased. At maximum output power, some watts might be shown as reflected power.

2.3 TELEMEASURING SOCKET CONNECTIONS



DB9 Socket

PIN N°	SIGNAL TYPE	IN / OUT	FUNCTION
1	Analog	Output	FWD Power
2	Analog	Output	REF Power
3	Digital	Output	Temperature
4	Digital	Input	Interlock
5	GND	-	-
6 - 7	Digital	Output	Free contact (closed when alarm)
8	Digital	Input	0V = ON 5V = Normal
9	Digital	Input	0V = OFF 5V = Normal

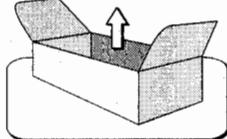
2.4 RS232, RS485 AND AGC SOCKET CONNECTIONS

PIN	1	2	3	4	5	6	7	8	9
FUNCTIONS	-	TxD	RxD	-	GND	-	-	-	-

RS232 - DB9 Socket

PIN	1	2	3	4	5	6	7	8	9
FUNCTIONS	-	Rx-	Rx+	5V	GND	-	Tx-	Tx+	-

RS485 - DB9 Socket



PIN N°	SIGNAL TYPE	IN / OUT	FUNCTION
1	GND	-	-
2	Digital	Output	0V = Normal 5V = AGC Alarm
3	Digital	Output	0V = Normal 5V = AGC Alarm
8	Analog	Output	FWD Power
9	Analog	Output	FWD Power

AGC - DB9 Socket

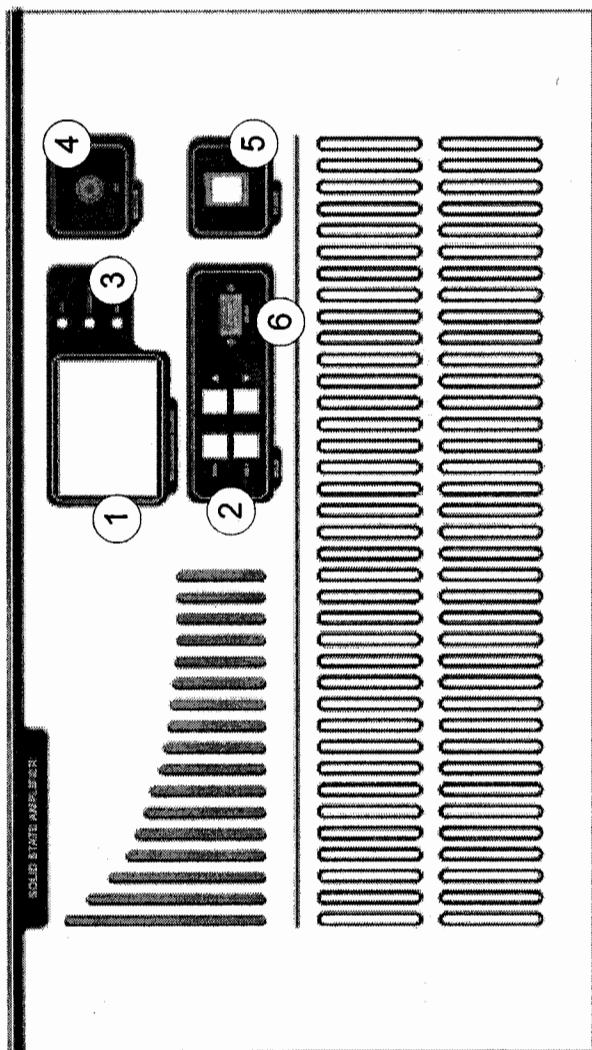
2.5 PREVENTIVE MAINTENANCE

To ensure maximum performance and minimum repair trouble, we strongly recommend you to follow the below stated headlines for preventive maintenance:

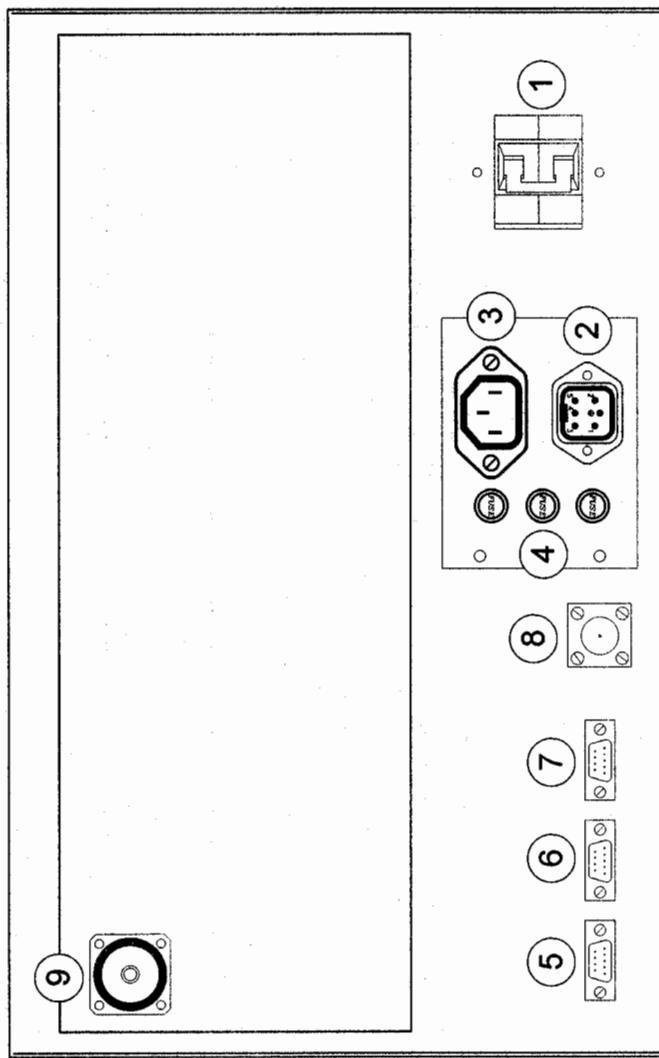
1. check antenna installation and ground connection at regular intervals;
2. keep your apparatus clean and dry externally: this will ensure continuous functioning of the front panel controls;
3. if the apparatus has not been used for a long period of time combined with exposure to extreme environmental conditions, open the unit and make a visual inspection.

Remove salt, water or ice with a moist cloth before turning the apparatus on. Check that the cooling fans are running freely.

4. for general maintenance and top performance, call an authorized service technician to give the apparatus and the complete antenna/earth connection installation a general check every 12-18 months;
5. check at regular intervals that the air intake located on the front panel is free of dust. If there is visible dust, remove it by means of a soft brush.

**DESCRIPTION**

1	LCD Display
2	Function keys
3	Status LEDs
4	RF Monitor connector
5	Main switch
6	RS232 Socket

**DESCRIPTION**

DESCRIPTION	
1	Breaker
2	Power supply socket
3	Auxiliary socket
4	Fuse: Drive 5A Control 1A Fan 3.15A
5	RS485 Socket
6	Exciter socket
7	Telemeasuring socket
8	RF Input connector
9	RF Output connector