

MSP1

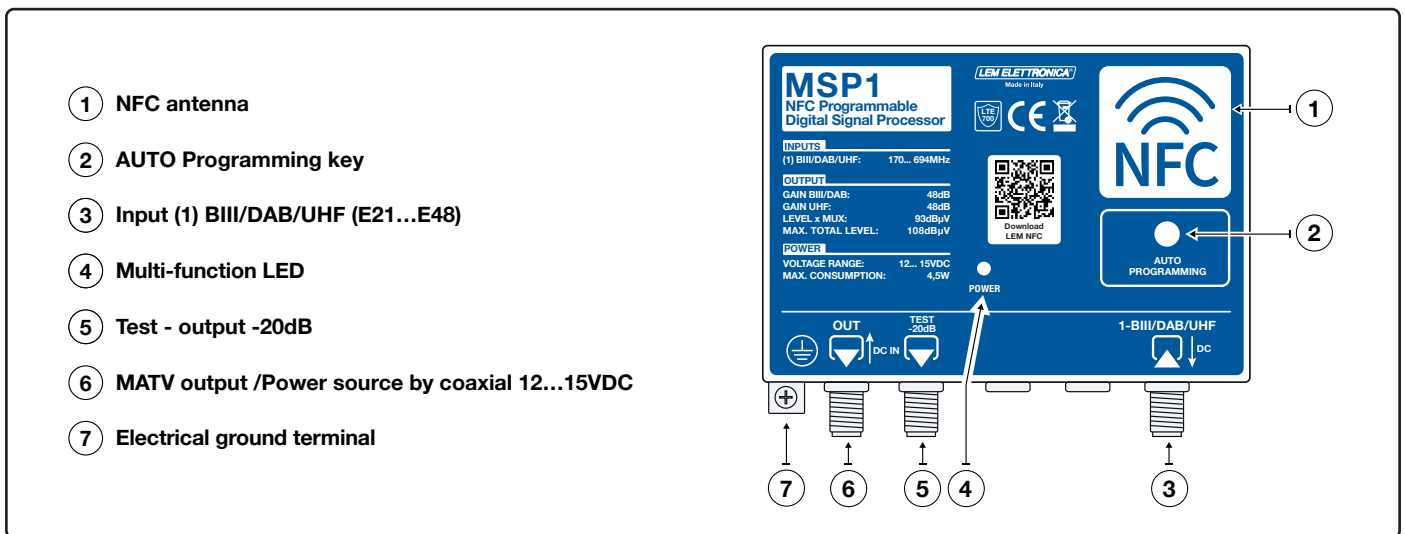
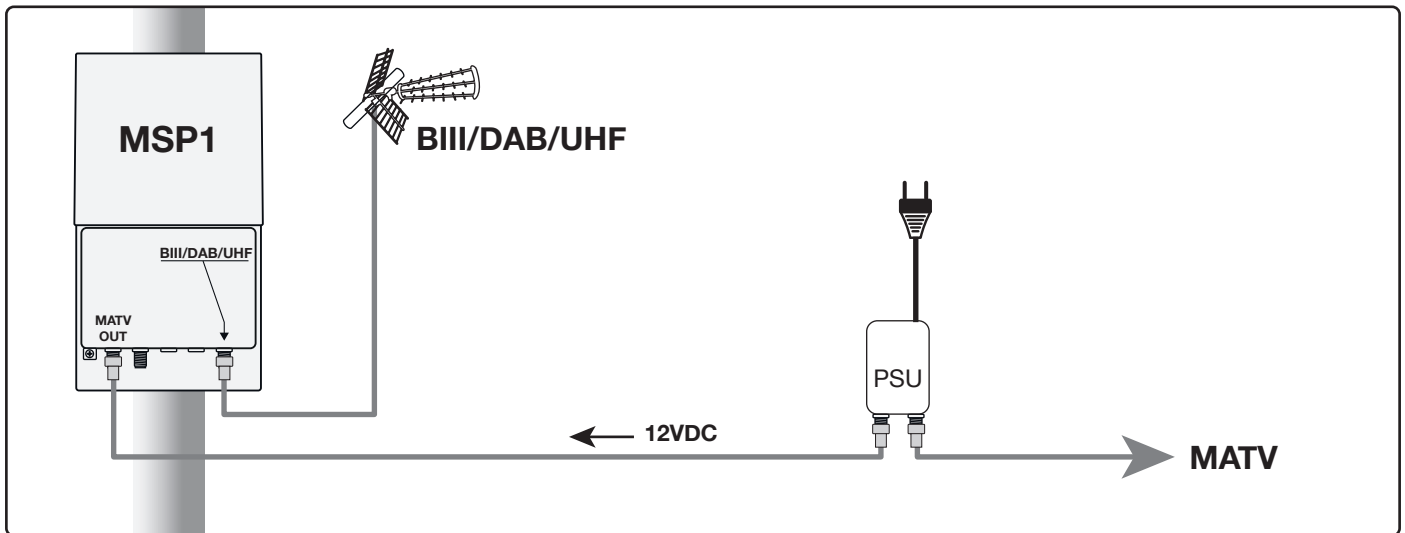
Programmable amplifier
Programmable via smart phone Apple or Android

Connection and activation

- 1_Connect the aerial to the input.
- 2_Connect the correct power supply to the output connector.
- 3_Verify the correct amplifier ignition marked by the green **Led Power** lighting.

Remote power source fault

The fixed red colour by **LED POWER** ignition stands for short circuit presence or excess load at least over one aerial connection.
 To reactivate the correct functioning remove short circuit or the excess load cause.



Installation warning

- Always use the product with the supplied standard rain protection.
- The products must not come into contact with water or be wet by liquid.
- Do not put the product near source of heat.
- By closet or compartment installation provide for a proper ventilation.

Icon descriptions and electrical safety

CE CE the equipment complies with 2014/53/UE, 2011/65/UE requirements.

Equipment grounding terminal.



The equipment is compliant with RoHS 2011/65EU.

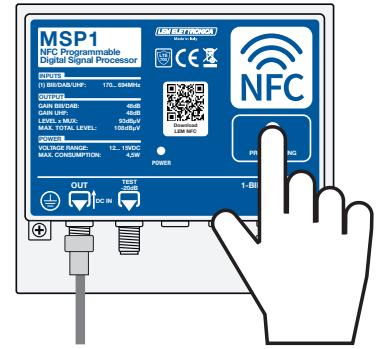


Dispose according your local authority's recycling processes.

AUTO-TUNING automatic channel search

To speed up the programming process, you can use the **AUTO-TUNING** function. When activated, the amplifier scan the input and automatically stores any DVB-T/T2 signals present on the antenna.

- 1_Press and hold the **AUTO Programming button** for approximately five seconds until the Power LED turns red.
- 2_The duration of the automatic programming process depends on the number of MUX present. Once the search and programming operations have finished, the Power LED will turn green and remain lit.



Once the AUTO-TUNING automatic search is complete, if you wish to make changes to the amplifier configuration, the first step is to read the data using the LEM NFC application.

Programming via app

You can configure all parameters of the **MSP1** amplifier using the **LEM NFC** application, which is available on all smartphones with **NFC** (Near Field Communication) data transmission capabilities.


NFC technology allows two devices to communicate with each other bidirectionally without contact but from a close distance.

Minimum requirements for Smart Phone Apple: iOS 13 - iPhone 7.

Minimum requirements for Smart Phone Android: Android 5 (Android 11 Recommended).



Configuration transfer from smart phone to MSP1

Once the parameters and settings have been defined in the **LEM NFC** app select the **WRITE ICON**  set your smart phone in correspondence of NFC sign applied to **MSP1** control unit and wait for transmission completion (about 5 sec).

Configuration transfer from MSP1 to smart phone

If you wish to get an already stored configuration, select the **READ ICON** , set your smart phone in correspondence of NFC sign and wait for reading completion (about 1 sec).

Technical specifications

INPUT NUMBERS		1
INPUT (1)	MHz	BIII /DAB (170... 240) + UHF (470... 694)
LTE PROTECTION		LTE 700
LEVEL ADJUSTER RANGE		45... 100
C.A.G. INPUT DYNAMICS	dB	40 dB
DIGITAL FILTERS SELECTIVITY	dB	≥50 (Adjacent Channels)
BIII-DAB GAIN	dB	48
UHF GAIN	dB	48
OUTPUT LEVEL	dBμV	73... 93 (adjustable)
MAX TOTAL OUTPUT LEVEL	dBμV	108 (IM3 DIN 45004B - 60 dBc)
RETURN LOSS IN/OUT	dB	>10
TELE-POWER SOURCE		50mA
SUPPLY VOLTAGE	VDC	12... 15
MAXIMUM CONSUMPTION		4,5W @12V
OPERATING TEMPERATURE	°C	-15... 40
DIMENSIONS	mm	129 x 128,5 x 51,5