

# MSP1

## Programmable amplifier

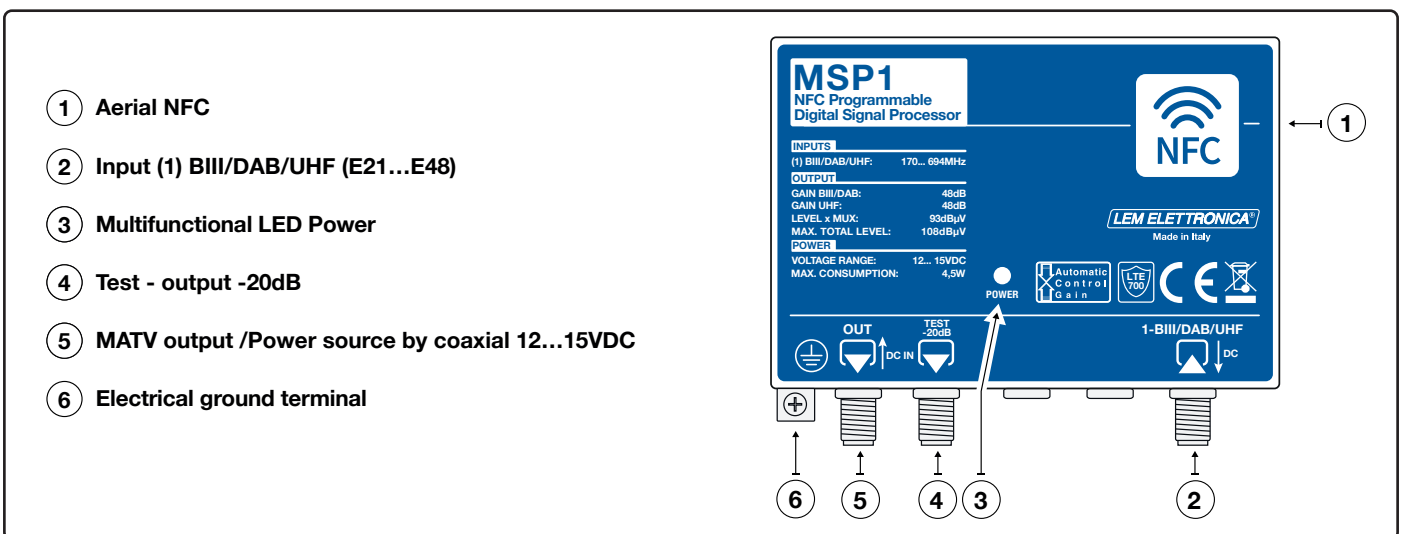
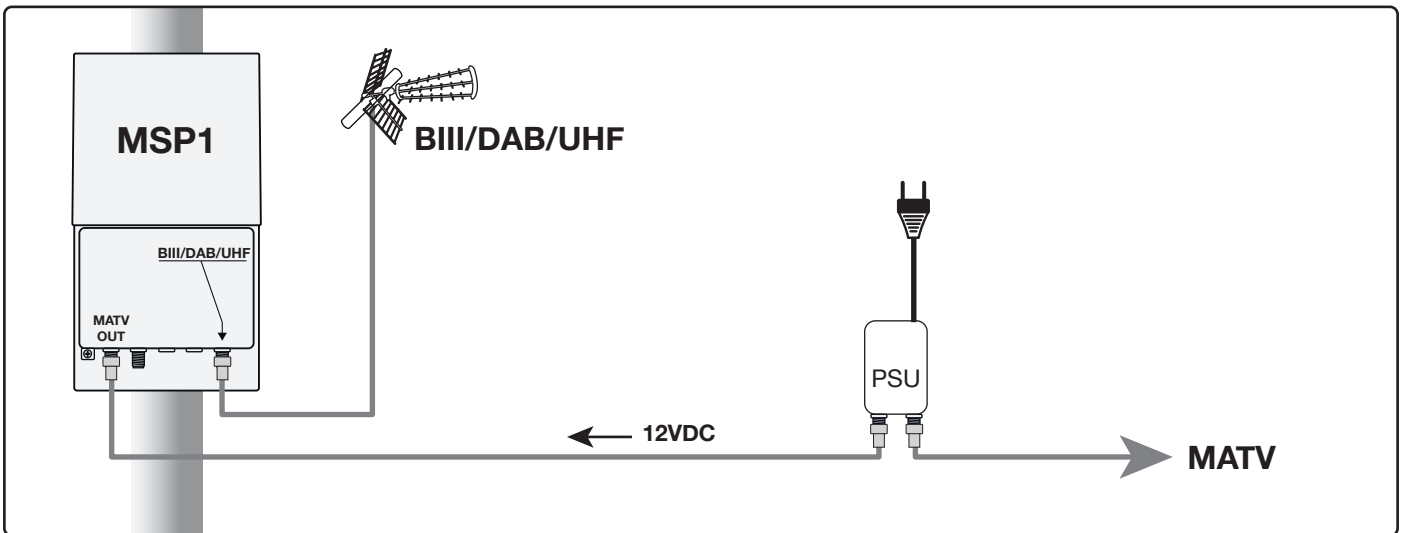
## Programmable via smart phone Apple or Android

### 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.

## Programming

All the TV **MSP1** control unit parameters are configurable via **LEM NFC** app available for each smart phone with transceiver **NFC** (Near Field Communication) data qualification.

NFC technology allows a contactless bidirectional communication between two devices by a close distance..

### Requirement for SmartPhone Apple

IOS 13 or higher  
iPhone 7 or higher

Download **LEM NFC** from Apple Store or frame the below QR code with smart phone camera



LEM NFC for iOS



LEM NFC

### Requirement for SmartPhone Android

At least Android 5 (Lollipop)  
Recommended Android 11 or higher

Download **LEM NFC** from Google Play or frame the below QR code with smart phone camera




LEM NFC for Android

Or in our download area from our website:

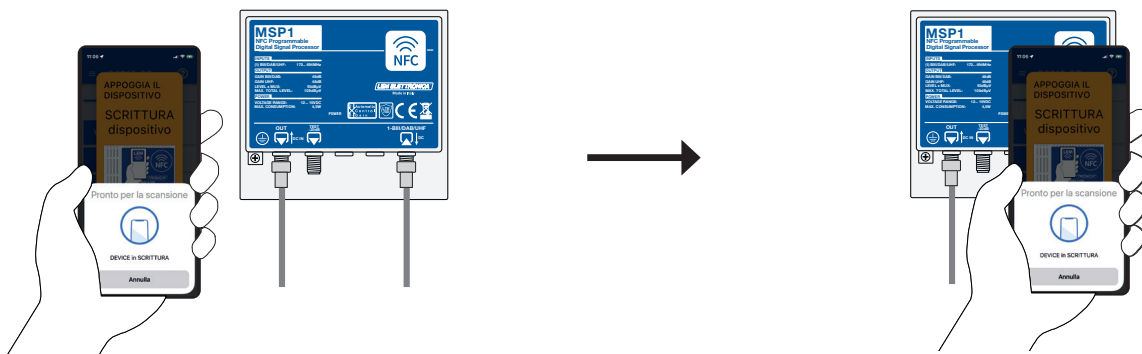
<https://lemelettronica.it/download-it/>

## 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

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