DSA25

DIGITAL SIGNAL PROCESSOR

AUTO Programming with DVB-T/T2 Tuner

Smart-Phone NFC contact-less programming

RED Compliant

DIN rail or wall mounting

High efficiency built-in power supply

PassCode protection

WARRANTY 5 YEARS

MODEL		DSA25
TV TERRESTRIAL		
NUMBER OF INPUTS	4	1 FM; 1 BIII/DAB/UHF; 2 UHF
INPUTS FREQUENCY RANGE	MHz	FM (40... 108) BIII / DAB (170... 240) UHF (470... 694)
SINGLE CHANNEL FILTERS		32
NUMBER OF CHANNEL PER FILTERS		1
INPUT TOTAL LEVEL RANGE	dBμV	FM 35... 90 - BIII/DAB 40... 110 - UHF... 45... 100
FM INPUT AMPLIFIER	dB	-10/+10 (OFF/ON)
VHF/UHF INPUTS AMPLIFIERS	DB	0/+16
VHF/UHF INPUTS A.C.G. RANGE	dB	40 dB
DIGITAL FILTERS SELECTIVITY	dB	35 @1MHz
SELECTABLE FILTERS AMPLITUDE		STANDARD/NARROW/AUTO
GAIN	dB	VHF 50 - UHF 60
OUTPUT LEVEL RANGE	dBμV	94... 114
BIII/DAB ADJUSTABLE GAIN	dB	0... -10
UHF ADJUSTABLE SLOPE	dB	0... -5
MAX TOTAL VHF-UHF OUTPUT LEVEL	dBμV	120 (IM3 DIN 45004B - 60 dBc)
MAX OUTPUT LEVEL WITH 6 MUX	dBμV	113
MAX INPUTS REMOTE POWER		12V / 80 mA
COMMON		
RETURN LOSS IN/OUT	dB	>12
TEST OUTPUT		1 (-30 dB)
MAXIMUM CONSUMPTION		100-240VAC 50/60HZ 8,5W
OPERATING TEMPERATURE	°C	-5... 50
DIMENSIONS	mm	227 x 107 x 48

ICONS DESCRIPTION

WARRANTY 5 YEARS — The **DSA25** amplifier is covered by an extended warranty of 5 years from the date of manufacturing.

Tuner SmartScan — SmartScan auto-programming function based on the tuner integrated into the amplifier.

LEM NFC — The **DSA25** amplifier can also be programmed through a graphical application available for free on Android and Apple iPhone smartphones.

NFC — Near Field Communication (NFC) technology allows two devices to communicate bidirectionally without physical contact but from a close distance.

RED COMPLIANT — Compliance with the RED (Radio Equipment Directive) regulations.

DESCRIPTION OF SYMBOLS AND ELECTRICAL SAFETY

CE — The equipment complies with the CE requirements

The equipment is designed for indoor use only

Equipment grounding terminal

This symbol indicates that the equipment complies with the safety requirements for class II equipment

CAUTION — To avoid the risk of electric shock, do not open the equipment.

RoHS 2002 95 EC — The equipment is compliant with RoHS 2011/65EU
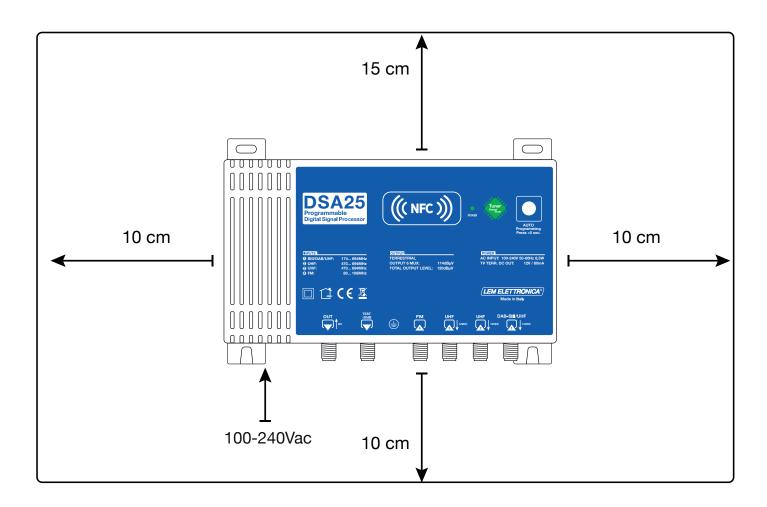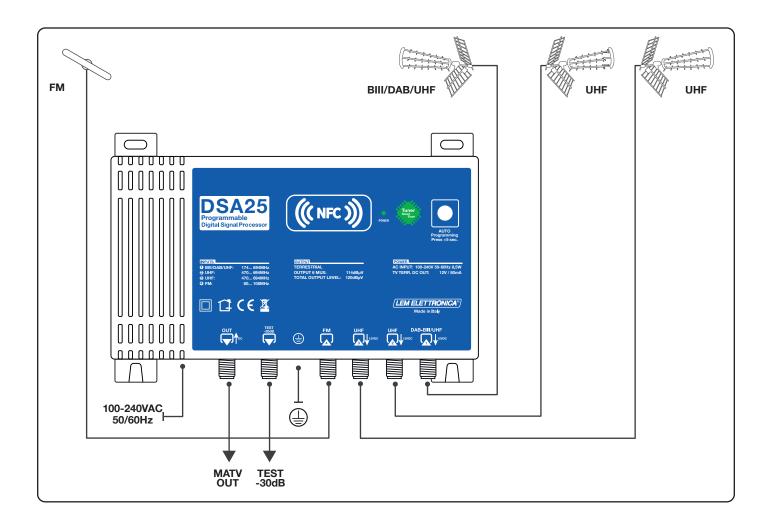
Dispose according to local authorities recycling processes

⚠️ Safety instructions

1. Do not expose the amplifier to extreme temperatures.

2. Place the amplifier in a dry and well-aired location.

3. Install the unit on a vertical wall, or in a waterproof cabinet with a minimum IP55 rating, and fix it safely using fixing plugs.

4. Connect the power cord to a detachable power supply socket.

Standard Connections Schematic

Installation and start-up

1 Connect an earth wire to grounding clamp

2 Connect the TV and Satellite coaxial cable to the amplifier's inputs

3 Connect the MATV output and terminate the unused inputs with 75Ω loads

4 Connect the DSA25 power cord to mains plug

Power Led red blinking

Input short circuit or over current. Please check the input(s) with the remote power supply activated and remove the issue.
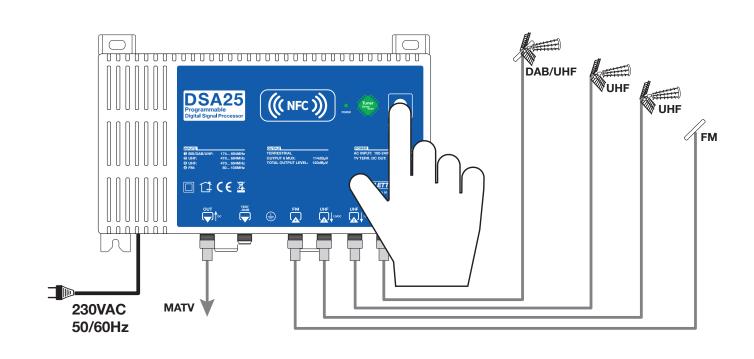
SmartScan Automatic Programming

Verify the correct startup of the amplifier indicated by the green Power LED turning on.

Programming

1_Press and hold (for about 5 seconds) the AUTO Programming button until the Power LED starts flashing.

2_The duration of the automatic programming depends on how many inputs are engaged and the number of MUXes present; therefore, the waiting time can range from a few seconds to a maximum of two minutes. Once the search and programming operations are completed, the Power LED will return to a solid green color.

Output level

Once the search and storage of MUXes are completed, the **DSA25** control unit performs equalization and sets the maximum optimal output level based on the number of activated filters. If you wish to modify the output level, it will be necessary to manually intervene using the application, as described in the next point.

Remote power supply error

⚠ The illumination of the **POWER LED** in red indicates the presence of a short circuit or overload on at least one antenna connection. Identify and remove the short circuit or the cause of the overload, then repeat the programming procedure.

Manual Programming

All the parameters of the TV control unit **DSA25** are configurable through the **LEM NFC** application, available for all NFC-enabled smartphones. NFC (Near Field Communication) technology enables two devices to communicate bidirectionally without contact but from a close distance.

Requirements for Apple smartphones
iOS 13 or higher
iPhone 7 or newer.

LEM NFC

Requirements for Android smartphones:
Minimum Android 5 (Lollipop)
Recommended Android 11 or higher.

Download LEM-NFC from the Apple Store, or scan the QR code below using the smartphone's camera.

Download **LEM-NFC** from Google Play or scan the QR code below using the smartphone's camera.

Download on the App Store

GET IT ON Google Play
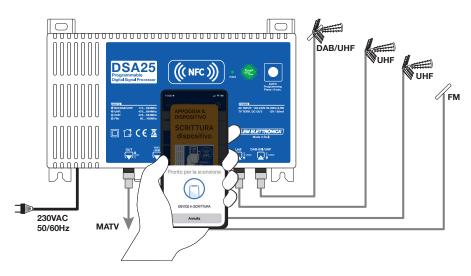
LEM NFC for iOS

LEM NFC for Android

Configuration and transfer from smartphone to the control unit.

1_Launch the LEM NFC application and select the **DSA25** model.

2_Program the desired parameters.

3_Press **WRITE** 🔊 and place the smartphone over the **NFC** symbol, then wait for the writing process to complete (approximately 2 seconds).

Reading configuration from smartphone.

1_ Launch the **LEM NFC** application and select the **DSA25** model.

2_ Press **READ** 🔊 and place the smartphone over the **NFC** symbol, then wait for the reading process to complete (approximately 1 second).

Label with serial and tracking data

AA10000015019-X1020L

Model   Serial #   Manuf. Week   Manuf. Year   HW Rel.   FW Rel.