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SmartKom intelligent mast amplifier

Autoprogramming, or manual programming via Bluetooth (ASuite)

Filters, mixes, amplifies and balances in one touch

Compact and intelligent amplifier for mast installation with digital channel processing, designed for family-houses installations. Equipped with 3 inputs to amplify terrestrial signals (VHF+UHF) in which each channel can be individually filtered by any of the 32 available programmable filters. In addition, it includes an input for mixing FM radio.

The amplifier is supplied with a 12V (800mA) domestic power supply that is inserted into the coaxial installation and powers it through its output connector.

The autoprogramming function of the amplifier gives this device the ability to program and adjust by itself, simply by pressing a button. In addition, thanks to the Bluetooth antenna included into the PSU, manual programming of the amplifier can be done wirelessly using a smartphone or tablet, with the ASuite application.

RED compliant

Ref.531911

Art.Nr

SMARTKOMMV

EAN13

8424450266250

Highlights

- "All-in-one" device: it combines the functions of several elements of an installation such as filters, mixers and amplifiers, supplying a complete signal distribution under a single coaxial cable
- Plug&Play: the amplifier automatically program and adjusts the channel level by pressing the autoprogramming button. In addition, SmartKom automatically powers the antenna in case the signal requires it
- Digital processing of the channels: a perfect balance of signal level between different channels is obtained at the output

- Automatic gain regulation of signal in each filter (AGC)
- Great signal quality: the installation of this device immediately after a [Televes intelligent antenna](#) prevents signal degradation and results in the best quality
- High selectivity digital filters (28dB@1MHz)
- SAW filter (Surface Acoustic Wave) included for high rejection of 4G/5G telephone interferences
- Indoor power supply included, with a Bluetooth antenna for wireless manual programming of the amplifier
- Wireless manual programming (via Bluetooth) through a smartphone or tablet with the ASuite app, avoiding having to physically go to the mast

Main features

- Secure configuration: in case of electrical failure SmartKom saves the current configuration, avoiding configuring it again
- High output level
- EasyF connection system: a reliable and safe system, saving installation time and without the need for additional connectors
- LEDs indicators displaying both adjustment and programming status on the amplifier and on the power supply
- High shielding chassis, made of Zamak
- A white ABS-plastic case is included to provide greater resistance against meteorological factors in its outdoor installation
- 100% European design and manufacturing: fully automated manufacturing, subject to the most stringent quality controls

Discover

EasyF connection system: simplicity and savings

EasyF is an innovative connection concept where the inner conductor of the coaxial cable is directly inserted in the device, thus improving connection reliability. Thanks to the absence of F connectors, the chassis can be reduced and the connection of two cables secured with a single screw.

- Real time savings: speeding the installation is possible without the need for coaxial cable termination. Furthermore, there is no need for screwing the connectors on the device, which is sometimes difficult when there is little room
- Connection reliability: the clamp holding the cables prevents the coaxial cable to come off
- Cost savings: no additional connectors are required (neither F nor IEC)
- Space optimization: inputs and outputs are always on the same side of the device to prevent coaxial cables from bending, and to make working inside cabinets and register boxes easier
- Very easy three-step mounting: only screwing and unscrewing the covers is required to connect both cables:

1. Unscrew the device's cover to access the connection
2. Insert the previously stripped coaxial cables
3. Close the cover and screw to ensure connection

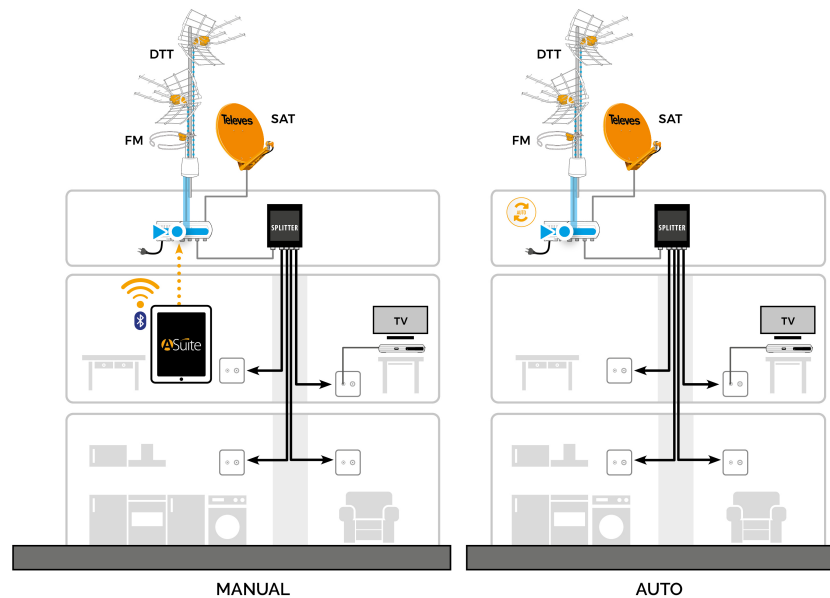
Learn more about EasyF system reliability

With EasyF, the connection between the coaxial cable and the device is carried out using an automated system for contact insertion of the inner conductor, without any soldering.

- Always as new: the device's operating life increases when the factor of solder wearing out with time is removed
- Failure rate reduction: usually produced as a result of cold soldering joints
- Electromagnetic behaviour optimization: for high frequencies
- Our commitment with environment is reinforced: pollution caused by the welding process is eliminated and production power consumption is reduced

Application example

(Click to see the picture)



SmartKom mast amplifier installation in a single family house

The device is installed on the antenna mast and is powered through the coaxial output connector. The PSU is located indoors and includes a Bluetooth antenna to wireless program with ASuite App.

Technical specifications

SMARTKOM MAST AMPLIFIER			
Inputs/Bands		3x VHF+UHF	FM
Frequency range	MHz	174-230/470-694	87.5-108
Input dynamic range	dBμV	40-80	-
Maximum gain	dB	45	-1
Gain regulation	dB	AGC	-
Number of filters		32	-
Channels per filter		1	-
Channel/filter programming		5-12 (VHF) 21-48 (UHF)	-
Filtered channel level regulation		AGC per filter	-
Selectivity	dB	28/12 @1MHz*	>20 @20MHz
Output level	dBμV	82 (VHF) 85 (UHF)	-
Vout regulation	dBμV	57-82 (VHF) 60-85 (UHF)	-
Manual regulation	dB	±3	-
Noise figure	dB	7 (VHF) 6 (UHF)	-
Powering inputs	Vdc	12 (AUTO/ON/OFF)	-
Max. consumption inputs	mA	70	-
Max. consumption	mA	500 (@12V w/o DC IN)	
Protection index	IP	23	
Operating temperature	°C	-5 ... +45	

*With adjacent channels: 28dB // Without adjacent channels: 12 dB

POWER SUPPLY UNIT		Ref. 550210	
Inputs		TV-MIX	SAT-MIX
Frequency range	MHz	47 - 862	950 - 2150
Output voltage	V	12	
Maximum output current	mA	800	
Insertion loss	dB	<2	
Mains voltage	V~	220-230	
Maximum consumption	W	14	
Maximum current	mA	130	
Protection index	IP	23	
Operating temperature	°C	-5 ... +45	