

Multi-switch distribution network amplifier

VWS 2500 20510036



The VWS 2500 is used for optimum signal provisioning on the input of larger multi-switch cascades or as cascadable distribution network amplifier to equalise cable or tap/splitter through loss in larger distribution networks.



Features

- Multi-switch distribution network amplifier for the Sat-range and terrestrial range in a Kathrein Sat-IF distribution system 4 x Sat-IF
- Five amplifiers (4 x Sat-IF and 1 x terrestrial range) in one housing
- High dynamic range of amplifier units
- High decoupling between the amplifier units
- The terrestrial amplifier unit is suitable for broadband cable systems
- Integrated pre-equaliser in the terrestrial amplifier unit
- Adjustable pre-equalisation (2/4/6 dB) in each Sat amplifier unit
- Low power consumption due to highly efficient, short-circuit proof switched-mode power supply unit
- LNB remote feeding via input horizontal low. All other inputs are voltage-free (enabling operation with UAS 485)
- For indoor installation
- Settable attenuators (1 dB steps) in each amplifier unit to adjust the different input levels

Technical data

Type	VWS 2500	
Order no.	20510036	
Inputs	1 x terrestrial	4 x Sat-IF
Frequency range	MHz 47-862	950-2,150
Gain ¹⁾	dB 17-21	24
Setting range attenuator (1 dB steps)	dB 0-15	0-15
Setting range equalisation	dB -	2/4/6
Max. output level (interferences 3 rd order)	dB μ V 113 ²⁾	115 ³⁾
Max. output level (interferences 2 nd order)	dB μ V 104 ⁴⁾	110 ³⁾
Max. operational level for broadband cable systems (up to 862 MHz) ⁵⁾	dB μ V 98	-
Decoupling trunk	dB 40	
Input nominal voltage	V 198-253 (50-60 Hz)	
Voltage secondary (input horiz. low)	V 18	
Available remote feed current (input horiz. low)	mA 620	
Nominal input voltage (at 620/200/0 mA external load)	W 18/9/5	
Protection class/category	II (insulated)/IP 30	
Ambient temperature range	°C -20 to +55	
Dimensions (W x H x D)	mm 205 x 148 x 43	
Packing unit/weight	pc./kg 1 (10)/0.75	

¹⁾ Frequency-dependent gain (pre-emphasis)

²⁾ 60 dB XMod to EN 50083-5

³⁾ 35 dB IMod to EN 60728-3

⁴⁾ 60 dB IMod to EN 60728-3

⁵⁾ To EN 60728-3, 60 dB CTB/CSO, CENELEC channel plan