



**Order number:** 20910031

**Open text field 1:**

House connection amplifier for modern HFC networks up to 1 GHz  
 Complete unit with forwards amplifier, return path amplifier, diplexer, actuators and power supply units  
 Die-cast housing with F connectors  
 LED as mode indicator  
 Built-in adjustable attenuator (forwards and return path; return path delivery status: max. attenuation)  
 Built-in adjustable equaliser (forwards path)  
 Built-in return path 5-65 MHz active  
 Compliant with: EN 60728-11, EN 50083-2 and EN 60065  
 For indoor installation  
 Built-in highly efficient switched-mode power supply unit  
 Interstage equaliser connectable with jumpers (6 dB pre-emphasis)

**Hersteller:** Kathrein

## VOS 20/RA-1G

### Product information "VOS 20/RA-1G"

House connection amplifier - 5-65/85-1006 MHz - Return path active - Amplification: 22 dB - Level setting element: 18 dB - Equaliser: 15 dB - Operating level (60 dB CTB/CSO) 96 dB $\mu$ V

<b>Type:</b>	VOS 20/RA-1G
<b>Order no.:</b>	20910031
<b>Forwards path:</b>	-----
<b>Frequency range:</b>	5-65 MHz, 85-1006 MHz
<b>Gain:</b>	20 dB, 22 dB
<b>Noise factor:</b>	5 dB, 6 dB
<b>Return path:</b>	-----
<b>Power consumption:</b>	4,5 W
<b>Temperature range:</b>	-20 to +55 °C
<b>Equalisation setting range (on the input):</b>	0-15 dB
<b>Equalisation setting range (at input <sup>1)</sup>):</b>	6 dB
<b>Dynamic range (input level density):</b>	22 dB
<b>Amplification setting range (at output <sup>2)</sup>):</b>	0-18 dB
<b>Max. output level (60 dB IMA3/IMA2):</b>	116/106 dB $\mu$ V
<b>Gain setting range (on the input):</b>	0-18 dB
<b>Amplification setting range (at input <sup>1)</sup>):</b>	0/10 dB
<b>Maximum output level as per KDG 1 TS 140 (medium system load):</b>	120
<b>Nominal input voltage:</b>	230 (50/60 Hz) V AC
<b>Mode indicator:</b>	LED grün
<b>Dimensions:</b>	155 x 105 x 54 mm
<b>Protection class/protection type (in accordance with EN 60529):</b>	II/IP 30
<b>RF connections:</b>	F connectors
<b>Max. operating level CENELEC 42 channels (60-dB-CTB/CSO):</b>	96 dB $\mu$ V
<b>Input level density (CINR):</b>	50 dB)
<b>Interstage equaliser setting range<sup>1)</sup>:</b>	0/6 dB
<b>Classification in accordance with KDG 1 TS 140:</b>	B(1.1) dB $\mu$ V
<b>General information:</b>	-----
<b>Packaging unit/weight:</b>	1 (10)/0.8 pc/kg

<sup>1)</sup> Adjustable using jumpers

<sup>2)</sup> Delivery status is with the adjustable attenuator set to max. attenuation