

## 19 Rack-Mountable High-Performance HF Receiver Multicoupler series with 1 input and 4, 8, 12 or 16 outputs

### DESCRIPTION

- Multicouplers for the LF, MF and HF band. 100 kHz - 40 MHz.
- For use where a number of receivers have to share the same antenna.
- Active wideband receiver multicouplers for the LF, MF and HF bands with 1 input and 4, 8, 12 or 16 outputs.
- Allows a number of receivers to share the same antenna without interaction and loss of signal.
- Wide frequency range: Covers 100 kHz – 40 MHz. If only a smaller frequency range is desired, a customer specified preselector can be built into prevent possible interference from strong transmitters outside the frequency band of interest. Procom A/S offer a number of band specific filters intended for preselector use. Please refer to the preselector overview and specify frequency range when ordering.
- Ultra-high dynamic range amplifier built in to compensate for loss in multicoupler network.
- The excellent large signal behaviour of the amplifier ensures handling of strong RF signals with very low levels of IM and harmonic distortion.
- Low amplifier noise figure ensures negligible S/N deterioration of the received and distributed RF signals.
- High isolation between receiver outputs.
- Built-in signal limiter to protect amplifier input from signals larger than 10 Vpp
- Built-in DC grounded 100 kHz HP filter to protect amplifier input from strong VLF noise e.g. during thunderstorms.
- Static discharge protected by Gas Discharge Tube across the input.
- Operates on 230 VAC mains supply or 12 V DC supply. (24 V as option).
- Galvanically isolated power supply with backup function.
- Automatic switching to DC supply if the 230 V mains supply fails.
- "POWER ON" lamp on front.
- Mains supply connector: IEC type fitted with noise filter.
- DC supply connector: Terminal block fitted with noise filter.
- RF connectors: N-female on all ports (other types on request).
- 19" rack module housing.
- Only 1 HU (PRO-ARHP4GS and PRO-ARHP8GS) or 2 HU (PRO-ARHP12GS and PRO-ARHP16GS) (1 height unit = 44.45 mm).
- Available with black anodized front plate.

### ORDERING

Type	Product No.	Description
PRO-ARHP12GS-N	210000240	OUTPUTS: 12



### SPECIFICATIONS

Electrical		
Gain (Input To All Outputs)	1 dB	
Frequency	100 kHz - 40 MHz	
Gain Variance	< 2.0 dB	
Maximum Ouput Power @P1dB	14 dBm	
Noise Figure	< 4.5 dB @ 10 MHz	< 6.0 dB @ 10 MHz
OIP3	> +30 dBm @ 1 MHz	
Impedance	50 Ω	
OIP2	> +38 dBm @ 1 MHz	
Isolation Between Outputs	> 20 dB	
Power Supply	198 to 264 VAC, max. 160mA	
Input VSWR	< 2.5:1 typically < 1.5:1	
Input-Output Isolation	> 40 dB	
Output VSWR	Max. 1.5:1 typically < 1.3:1	
DC Supply	10.8 to 14.4 VDC, max. 2A	
No. Of Channels	4 to 16	
Mechanical		
Power Connector	3-terminal IEC60320-1 C14 (male)	
Connection(s)	N female (standard), BNC, TNC or SMA on request	
DC Connector	3-pole screw terminal block	
Dimensions	PRO-ARHP4GS-N and PRO-ARHP8GS: 19" x 1HU x 261 mm (483 x 44.45 x 261 mm) / (19.02 x 1.75 x 10.28") PRO-ARHP12GS-N and PRO-ARHP16GS: 19" x 2HU x 261 mm (483 x 89.9 x 261 mm) / (19.02 x 3.54 x 10.28")	
Weight	PRO-ARHP4GS-N and PRO-ARHP8GS-N: Approx. 2.8 kg. / 6.17 lb.	
Environmental		
Operating Temperature Range	-10°C to +50°C	
Humidity	Max. 85% @ 30°C	

MODEL HOUSING

PRO-ARHP4GS-N and PRO-ARHP8GS-N



PRO-ARHPB4GS-N and PRO-ARHPB8GS-N



PRO-ARHP12GS-N and PRO-ARHP16GS-N



STANDARD LOW-LOSS PRESELECTOR FILTERS FOR PRO-ARHP...GS

TYPE DESIGNATION	FILTER TYPE	PASS BAND
BPF 1.6-30	Band pass	1.6 - 30 MHz
BPF 2-9	Band pass	2.0 - 9 MHz
BPF 2-17	Band pass	2.0 - 17 MHz
HP2	High pass	2.0 - 40 MHz

HOW TO ORDER CUSTOMIZED TYPES

PRO-ARHP	B	8	GS	-N(f)	-BPF	-24 V
◆	◆	◆	◆	◆	◆	◆
Series	Front plate	No. of outputs	Connector type	Preselector filter**	DC voltage	
PRO-ARHP	Blank = blank ) Blank coated = B	4 outputs = 4 8 outputs = 8 12 outputs = 12 16 outputs = 16	N-female = -N(f) TNC-female = -TNC(f) BNC-female = -BNC(f)	No filter = blank* Band pass = -BPF High pass = -HPF Low pass = -LPF	12 VDC = blank* 24 VDC = -24V	

\* "Blank" means sign omitted.  
\*\* Preselector pass band [MHz] to be stated after the ordering designation.

EU DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type PRO-ARHP...GS-... is in compliance with EU Directive 2014/53/EU.  
The full text of the EU Declaration of Conformity is available at:

[/images/shop/catalog/pdf-for-catalogues/Declaration-of-Conformity-PRO-ARHPxGS.pdf](#)

