

MicroMATV *futura C* Series

With Automatic Gain Control



Universal Amplification System for headends with 10 UHF filtering modules, with a programmable width of 1 - 6 channels, in addition to VHF and FM signals.

APPLICATION

Designed for medium-sized analogue and digital terrestrial TV headend community installations and individual installations. Can receive signals from up to 5 antennas, allowing the system to be organised in accordance with the number of channels picked up by each.

CHARACTERISTICS

- AES function: system which automatically regulates the input signals, guaranteeing a balanced output signal simplifying adjustment as much as possible. Manual adjustment option.
- AGC function: a system that sets the output level for all active channels, irrespective of the variation in adjacent channels. It is the only programmable amplifier to offer these characteristics (Patent Pending).
- Automatic recognition of channel type: digital or analogue and identifies empty and occupied channels.
- Easily programmable with the UCF 200 control unit, using a simple and intuitive menu. With memory to clone up to 8 different configurations and programme using a single MicroMATV key.
- It incorporates amplification of 1st IF SAT.
- Auxiliary input for channels processed by other equipment.
- Immune to broadcasts from other services like GSM, UMTS, ...
- Chassis totally made of Zamak.
- Incorporates RS 232 Serial port for firmware upgrading.
- Supply to pre-amplifiers at UHF1/UHF2 (12 V) inputs.



| | |
|--|-----------------------------|
| Consumption | 35 W |
| Supply to LNBS | 0V/13V/17V/0Hz/22KHz, 300mA |
| Supply to pre-amplifiers/mast ampli. | 24V/100mA |
| Supply to pre-amplifiers UHF ₁ /UHF ₂ inputs | 12V/30mA |
| Mains supply | 230V ± 15% |
| Working temperature | 0-50 °C |

INPUTS

| Band | FM | BI | BIII/DAB | AUX | UHF1 | UHF2 | UHF3 | (1) 1 st IF SAT |
|---|----------|--------|----------|------------------|--------------------------|---------|---------|----------------------------|
| Bandwidth MHz | 87,5÷108 | 47÷68 | 174÷230 | 47÷68 130÷862 | 470÷862 | 470÷862 | 470÷862 | 950÷2150 |
| Number of amplifiers | 1 | 1 | 1 | 1 | 10 | | | 1 |
| Filter width | Fixed | | | | Variable: 1 ÷ 6 channels | | | Fixed |
| Configuration of number of amplifiers per input | No | | | | 6 | 4 | 0 | No |
| | | | | | 6 | 3 | 1 | |
| | | | | | 10 | 0 | 0 | |
| | | | | | 9 | 0 | 1 | |
| Gain (2) | 40 | 40 | 40 | 23 | 53 | 53 | 53 | 37÷45 (3) |
| IN Regulation | — | 25 | 23 | No | 23 | 23 | 23 | — |
| OUT Regulation | 25 | 20 | | | 20 | | | 20 |
| AGC (Automatic Gain Control) | No | | | | Programmable | | | No |
| Selectivity ± 20 MHz | — | | | | 22 | | | — |
| Noise figure | 6 | 6 | 8 | 15 | 8 | 8 | 8 | 15 |
| Operational input level | analogue | 71/101 | 70/95 | 70/93 | 90 | 60/83 | | 68/88 |
| | digital | — | 55/80 | 55/78 | 75 | 45/68 | | |
| Decoupling between inputs | — | | | | 20 | | | — |

OUTPUTS

| MODEL | MicroMATV [®] futura 100 C | MicroMATV [®] futura 200 C | MicroMATV [®] futura 300 C |
|--------------------------------|--|--|--|
| Reference | 35580 | 35552 | 35553 |
| Number of outputs | 1 | 1 | 2 |
| Band | RF | RF+1 st IF SAT | RF RF+1 st IF SAT |
| Bandwidth MHz | 47÷68 130÷862 | 47÷68 130÷862 950÷2150 | 47÷68 130÷862 47÷68 130÷862 950÷2150 |
| Output level IM3 DIN45004B (4) | 121 | 121 121 | 117 117 121 |
| Packing dimensions | mm 390 x 275 x 60 | | |
| Weight | Kg 4,5 | | |

(1).- 1st IF SAT input (only MicroMATV *futura* 200 C and MicroMATV *futura* 300 C).
(2).- -4 dB lower (MicroMATV *futura* 300 C model).

(3).- Fixed 8 dB slope between begin and end of band.
(4).- IM3 -60 dBc for TV PAL and -35 dBc for FM, DAB, 1st IF SAT and TDT (COFDM).