

HMS120 HMS130

REF. 4435

REF. 4436



- Headend monitoring/programming via a web browser.
- Identification of the headend and dates of interventions.
- Reading of the RF level from each single module and from the multichannel signal from the headend.
- Equalization of the RF multichannel signal from the headend.
- Scheduling of parameters settings, OSD messages and firmware updates.
- Statistics.
- Automatic alarm advertisements via SMS.
- Only HMS-130: Insertion of JPG and MP3 files for INFO Channel.

HMS-120

HMS-130

INFO Channel

Frequency range	MHz	–	45 – 862
TV System		–	B-G-D-K-I-K-L, PAL, SECAM
Adjustable output level	dBμV	–	70 – 80

Reading of modules' RF output level and multichannel signal taped from headend RF output

Frequency range	MHz	45 – 862
Range of levels	dBμV	55 – 90
Accuracy of the reading	dB	± 1,5

GSM/GPRS Modem

Frequency range	MHz	GSM900 → Tx: 880 – 915, Rx: 925 – 960 GSM1800 → Tx: 1710 – 1785, Rx: 1805 – 1880
Threshold	dBm	< -102
RF Output power	W	GSM900 → 2 GSM1800 → 1
Frontal slot for SIM card		Yes
Antenna		50 Ω, 7 cm height

Monitoring Ethernet Port

Standard		IEEE 802.3 10/100 BaseT
Bit rate	Mbps	up to 100
Transmission protocol		TCP/IP

Local Communication Bus

Electrical Interface		RS-485 full duplex
Protocol		IKUSUP
Feature		Automatic assignation of addresses to the module of the headend

'Terminal' Port

Electrical Interface		V28/RS-232
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Connectors

FSM antenna	FME
RF input (headend output's tapping)	female F
Local bus	2x 4-pin socket
Monitoring	RF-45
Terminal	DB-9
GSM model card	SIM socket
RF output (loop-through)	2x F female
DC	banana sockets
Peripheral accesories	USB

LED Indicators

POWER, STATUS, GSM, ALARM, LINK (Ethernet link) and
ACT (Ethernet activity)

General

Supply Voltage	Vdc	+12
Consumption	mA	600
Operating temperature	°C	0 – +45
Dimensions	mm	230 x 195 x 32

APPLICATION

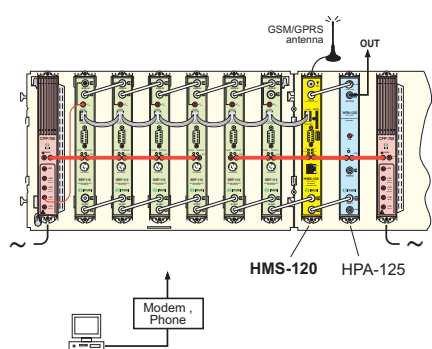
The HMS-120 and HMS-130 units provide advanced remote control features for ClassA headends. These features include sending alarms via SMS, detecting RF levels of the headend multichannel output signal, automatically equalising these levels and the possibility of scheduling parameter settings, generating OSD messages and updating firmwares. The HMS-130, besides this, generates an INFO Channel that displays images and sounds previously entered as JPEG and MP3 files. The HMS units include a web server which allows the control operation to be performed from any local or remote PC using a standard browser.

The control unit is positioned in the ClassA headend as the last module on the right of the cascade of signal modules (processors, receivers, transmodulators, regenerators). The installation of the communication local bus (IKUSUP) along the modules is required, as well as the connection of a tapped signal from the HPA amplifier to the HMS control unit.

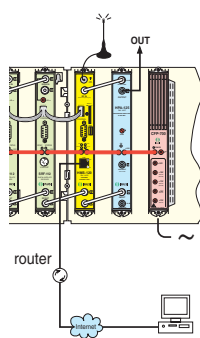
ACCESS INTERFACES

The HMS control units have two interfaces for remote communication:

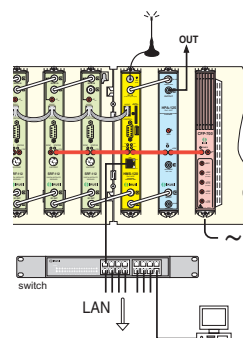
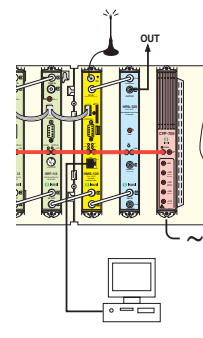
- A GSM/GPRS interface which uses an internal modem to perform control operations from any remote PC connected to the modem telephone number. A slot on the front panel allows to insert the SIM card.
- An Ethernet interface which, via an external modem/router, allows monitoring from any remote PC connected to Internet. If the headend is installed in a LAN environment, the control operations can be performed from any PC integrated therein. The interface also allows local use of a PC connected directly connected to the HMS module.



a) Remote access via GSM/GPRS.



b) Remote access via Internet.

c) Headend integrated into a LAN.
Control from any PC of the LAN.d) Control in local
mode with a PC.