

DMM Digital Stereo Encoder

Stereo Encoder for Broadcast Applications

A technically advanced solution for FM transmitter sites, the DMM Digital Stereo Encoder is based on the most sophisticated 32 bit Digital Signal Processing technologies offering uncompromised digital processing of both digital and analog audio and SCA data.

Remote Control

All settings on the DMM are accessible on the front using the keypad and display or remotely controlled via TCP/IP.

MPX Limiter and Power Processing

The basic DMM has an advanced MPX deviation limiter on board preventing over-deviation by external causes.

Features

- 32 bit Digital Signal Processing technology
- Digital (AES/EBU) and analog audio inputs with automatic switchover
- Two outputs for MPX
- MPX monitoring via front side BNC
- Two inputs for SCA and Output for 19 kHz Pilot
- Programmable Deviation limiter 40 kHz - 150 kHz
- Integrated signal supervisor, alarming and logging functionality
- Advanced measurement of audio and MPX
- Option: "Stereocoder für das Pilotton verfahren" and SNMP Specifications as published by the German "Institut für Randfunk Technik (IRT)"



TECHNICAL SPECIFICATIONS—DMM Digital Stereo Encoder

MODEL	DESCRIPTION
DMM-Base	Double SCA inputs - Double Pilot and MPX outputs
DMM-TR	Double SCA inputs - Double Pilot and MPX outputs. Meets TR 5/3.2 Specifications
SOFTWARE OPTIONS	
Remote Management	Software License

DIGITAL INPUT	
Connector	XLR female 110 Ohm balanced
Digital Input Reference Level	-6 dBFS (RMS) = -6 dBFS (peak) in accordance to AES-3 standards; referenced to 65, 67.5 or 75 kHz
Digital Gain Adjust	-20 to +12 dB in steps of 0.1 dB
ANALOG INPUT	
Analog Audio Input	XLR female 600 ohm or High-Z balanced
Audio Frequency	-30 Hz to 15 kHz, $\pm .25$ dB
Analog Input Reference Level	6 dBu, referenced to 40, 65, 67.5 or 75 kHz
Analog Gain Adjust	-20 to +12 dB in steps of 0.1 dB
DIGITAL STEREO ENCODER	
L/R Separation	>60 dB (typical >72 dB) (30 Hz - 15 kHz)
Pre-emphases	0-50-75 μ S (CCIR Rec. 450-1)
38 kHz suppression	>85 dB (CCIR Rec. 450-1)
Distortion	>74 dB (< 0.02%)
S/N	> 80 dB (CCIR Rec. 468-4 unw.)
Hum Modulation	>80 dB
Audio Deviation	Selectable 40 to 75 kHz
Pilot Output	19 kHz, TTL level, BNC 75 Ohm
Pilot Deviation	1 to 15 kHz in 0.1 kHz steps (Units in kHz or dBr)
Pilot Frequency Accuracy	+/- 0.5 Hz
Pilot Phase	-10 to +10° in steps of 0.01°
SUBCARRIER	
Input Level	-12 dBu, BNC
Gain Adjust	-6 to dB steps 0.1 dB

MPX OUTPUT	
MPX Peak Protection	40 to 150 kHz in 0.1 kHz steps (units in kHz or dBr)
MPX Output Level	-9 to +9 dBu in 0.1 dB steps
MPX Output Connector	BNC, 75 Ohm
DATA, ALARM AND ANCILLARY PORTS	
Alarm connection 3 relays	Sub-D9 connector female
Data Connector	Sub-D9 connector female
Data Connection	RS-232 / 1K2-38K4 Baud
Inputs 4 Optocoupled	Sub-D25 connector female
Outputs 4 Relays	Sub-D25 connector female
IP PORT	
Protocol	TCP/IP
Port Type	Ethernet RJ45, 10/100 Mb/s
Communication Type	HTTP and SNMP
POWER REQUIREMENTS	
Supply Voltage	100 to 240 VAC, 50/60 Hz
Power Consumption	45 Watt maximum
Power Connection	IEC panel-mount plug filter with fuse 2.5 AT
PHYSICAL PARAMETERS	
Chassis	1 RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 30 cm (1.75" x 19" x 11.8")
Weight	5 kg (11 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	5° to 45° C (41° to 113° F)
Storage Temperature	-5° to 65° C (23 to 149° F)
Safety and Emissions	In accordance with CE regulations



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