Delay-Pro

Audio profanity Delay

Delay-Pro is a stereo audio delay used for live broadcast programs to prevent the transmission of unwanted material. It features a programmable digital audio delay process which allows you to introduce a delay with a programmable time from 1 to 59 seconds of live delay while it is "on air", without alerring the audio quality

The **Delay-Pro** has both balanced analogue and AES/EBU digital audio inputs and outputs on 3 pin XLR connectors and provides sample rates up to 96kHz at 24 bit. It can works as a A/D and D/A converter unit meaning that analogue inputs can be output as AES/EBU or vice-versa.

The Delay-Pro it is equipped with a TFT color display on the front panel. With the jog encoder the user is able to do the setup functions: Delay Mode, Delay time, Input setup, digital sample rate output.

The commands are remoted with the Logic GPIO port on the rear side, so the user can to interface the Delay-Pro with the GPO of the audio console or other devices with GPO port equipped

Furthermore the device is also equipped with an integrated web server with which you can control all operation via LAN, the adoption of the web server frees the user from having to install a softwatre program on his computer and does not depend on the operating system used on the computer.

It is possible to set several modality to wors: Blank (cutting the audio), Tone, Jingle or Switch

Blank: delete the audio all time that the key "D" is pressed

Tone: replace the audio live with a tone generated internally

Jingle: replace the audio live whit a pre recorded gingle

Switch: switch the input audio to a other audio source; you can set the Sub audio source as Internal or **External**

Internal Switch: the command switch the live audio to the internal MP3 player where was recordered the audio in internal solid state memory

External Switch: you can choose to switch the input audio with the other audio input (by analog to digital or vice-versa)

With the Restore comand the user can switch the audio source without delay to outputs

Delay Time: to set the delay time (0 to 59") and the bit rate

Input setup: set the Main audio source, the Sub1 and the Sub2; the level input adjust, the digital sample rate of the AES/EBU output.

Both inputs, Analog and Digital AES/EBU, are in Bypass mode when the device is turn Off or, anyway, when a pore-fail occurs.

The audio to be stored in the internal memory can be sent to the device via an ethernet network connection; this function allows you to use the device as a catastrophe alarm, the device can then be installed also on the transmission site to send and activate priority alarm messages from the central office.

Technical Data

Frequency response	20Hz ÷ 20 KHz
Stop band rejection	> 78 dB beyond 17 KHz
Noise	> 65 dB in all conditions (depends on the processing)
Total distortion	< 0,01 %
Total system separation	> 67 dB (30 Hz – 15 kHz)

ANALOG AUDIO INPUT

Configuration	Left and Right
Impedance	10 K Ohm balanced
CMRR	> 45 dB from 30 to 15 Khz
A/D Conversion	192 kHz sample rate
Sensitivity	±12dBu
Maximum input level	+15 dBu
Connector	XLR-type, female,

DIGITAL INPUT

Digital input configuration	AES 3 professional (IEC-60958)
Digital AES 3 Input Impedance	110 Ohm Balanced
Digital AES 3 Input Connector	XLR Female
Sample Rate Automatic lock	32 - 44.1 - 48 - 96 KHz
Resolution	24 Bit

ANALOG AUDIO OUTPUT

Configuration	Left and Right
Impedance	30 Ohm electronically balanced and floating
Minimum load impedance	600 Ohm
Maximum output level	+15 dBu into 600 Ohm load
Connector	XLR-type,

DIGITAL OUTPUT

Digital Output Sample Rate	Software Selectable 32 - 44.1 - 48 - 96 KHz
Resolution	24 Bit
Digital Output configuration	stereo AES 3 Transformer Balanced (IEC-60958)
Digital Output Impedance	110 Ohm Balanced
Digital Output Level	- 12.00 / 0 dBFS adjustable
Digital Output Connector	XLR Male

DATA

Delay time	1 to 59"
Terminal Interface	Ethernet / RS232- at rear, asynchronous
Data Input	Full duplex
Format	Selectable
Serial Transmission Speed	2400 ÷ 19600 baud
Connector	RJ45 / RS232/ USB
Data management	Microprocessor controlled Non volatile memory Flash data retention 10 years

Logic I/O

Connector	DB15 cannon female

GENERAL

Mains Voltage	90 – 260 Vac / 50 Hz full range
Dimension	(W x D x H) 48,3 x 19,4 x 4,4 cm, 19" 1 RU
Weight	3,5 Kg.
Operating Temp.	0 ÷ 50° C.
Operating Humidity.	Max 95% non condensing