AEV Broadcast Engineering

DUAL SWITCH

Programable Audio Switcher

Dual Switch is extremely easy to program using the display and the encoder on the front panel.

Dual Switch is equipped with a system of By-pass passive (Relay) able to "bypass" directly to the control circuit and switching, connecting the main entrance (MAIN) at the output (OUT) in the event of failure of the device extended or in case of power failure (unless this option Back-Up).

Dual Switch is equipped with an auxiliary output stereo, on RCA pin connectors to allow any connection to recording devices and a monitor output MPX that replicates the output resulting from switching MPX.

Dual Switch is able to accept external commands normally closed or normally open, inputs are optically isolated, Dual Switch, trough the Logic I/O port, provides commands optocoupled output that repeat the status of the switches and the internal audio Stereo MPX.

The state of the photocoupler output is normally open.

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Techincal details

Inputs Stereo (Main, Sub)

Analog audio input configuration	Electronically balanced Left & Right
Input Impedance	10 KΩ
Common mode rejection	Greater than 50 dB (30 Hz 15 KHz)
Connectors	XLR Female

Output Stere

Analog audio output configuration	Electronically balanced Left & Right
Output level	As Input Level in Transparent Mode,
Connectors	XLR Male

Inputs MPX (Main, Sub)

configuration	Unbalanced
Composite input level	0 dBu
Impedance	10 KΩ
Connector	BNC grounded to chassis

Output MPX

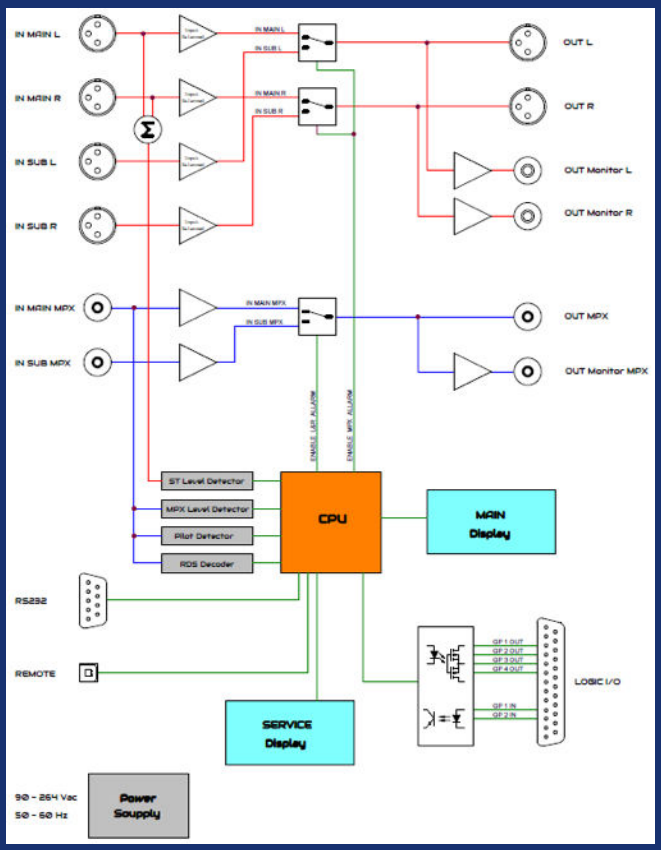
MPX Output configuration	Unbalanced
Composite output level	As Input Level in Transparent Mode
Connector	BNC grounded to chassis

Monitor Stereo Output

Output configuration	Unbalanced
Output level	As Input Level
Output Impedance	100 Ω
Connectors	PIN RCA

Monitor MPX Output

Output configuration	Unbalanced
Output level	As Input Level in Transparent Mode
Output Impedance	50 Ω
Connectors	BNC grounded to chassis



LOGIC INPUT

Configuration	Opto-coupled (with internally 330 Ω protection)
Typical Voltage input	5 Vdc (for 10 mA input)
Max Reverse Voltage	5 Vdc
Connector	DSUB 15 pole female

LOGIC OUTPUT

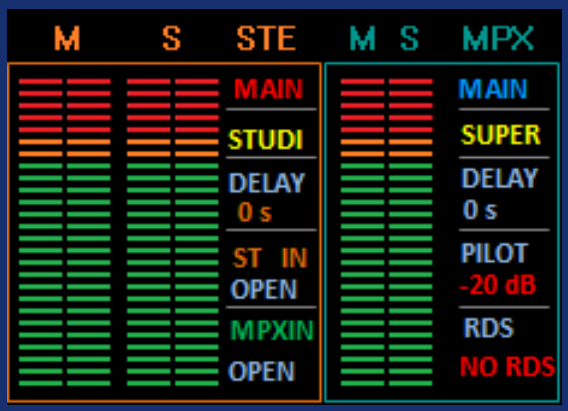
Configuration	Optic solid state relay
Max Voltage	50 Vac/dc
Max Current	100 mA
Connector	DSUB 15 pole female

RS232 SERIAL CONNECTION
Connector DSUB 9 pole female

USB SERIAL INTERFACE
Connector USB B

General Specifications

Stereo Separation degradation	< 1 dB
Distortion @ 1 KHz	< 0.01%
Signal to noise ratio	< 85 dB (CCIR)
Power requirement	90 - 264 V ~ 50 - 60 Hz
Consumption	4 W
Power supply	max power 8 W
Dimension	(WxHxD) 48,3 x 19,4 x 4,4 cm 1 rack unit
Weight	2,5 Kg. (5.5 Lbs)
Operating Temp.	0 ÷ 50° C.



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