

Automatic Change-Over Unit ACU

The ACU 1+1 model is a universal automatic change-over unit that is capable of controlling radio FM and television transmitters and repeaters. ACU 1+1 features a Baseband and RF internal switch and also can control an external high power coaxial relay. In case of breakdown of the primary signal, it operates the subsequent switch-over to the auxiliary source, thus ensuring continuity of service.

The internal coaxial relay allows switch-over of RF signals of up to 350 W aver. power up to 1 GHz and 150W up to 3 GHz.

By means of the dedicated DB25 connector located on the back of the unit, it can interface with any type of external coaxial relay to control any high-power installation. The unit, which is 100%

microprocessor-controlled, allows the software-operated configuration of all operating parameters, such as low power threshold, wait and switching time. The graphic display makes it possible to check the parameter settings and the operational status of the system.

Automatic operation can be deactivated from the front panel in order to allow manual control of switching. All baseband routing is made by means of fully passive bistable circuitry, in order to grant signal continuity even if the changeover unit is damaged. The unit features a dual independent mains power system and, by default, it is equipped with low voltage DC input for battery supplied systems.



- > Internal coaxial relay
- > Microprocessor controlled
- > Universal interface

Technical data

BASEBAND SWITCHING

Video A , Video B	BNC, 75 Ohm fully passive routing		
Audio stereo	Left A (main),		
Audio stereo	Left B (aux)		
Audio stereo	Right A (main),		
Audio stereo	Right B (aux), standard XLR fully passive routing		

RF SWITCHING

	N,50 Ohm		
Input Sensitivity	-30 dBm nominal \pm 20 dB		
Operating frequency	1 GHz	2Ghz	3Ghz
Average power	350W	250W	150W
Insertion loss	0.15 dB	0.2 dB	0.25 dB
V.S.W.R	1.15	1.20	1.25
Isolation between channels	85 dB	80 dB	75 dB

INTERFACES

Parallel port	25 pin sub-D connector		
Unit A and Unit B	Fully isolated INPUTS and OUTPUTS		
Can BUS (future option)	9 pin sub-D connector		
Serial RS232/RS485	9 pin sub-D connector (software selectable by user)		
Ethernet TCP/IP	RJ45 (optional)		

GENERAL

Operating Temperature	-10°C to + 45°C		
Maximum relative humidity	90 % non condensing		
Main supply Double input	85/264 V A .C. full redundant		
	DC 24V or 48V floating		

DIMENSIONS

	1 S.U. 19" rack mount		
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Specifications and characteristics are subject to change without notice.

