Automatic Change Over Unit

ACU
ACU-S

The ACU model is a universal and flexible automatic change-over unit designed for controlling FM radio and television transmitters or repeaters.
ACU includes a Baseband and RF internal switch.
It can also control an external high power coaxial relay. In case of breakdown of the main RF signal, the equipment 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 average power up to 1 GHz, and 150W up to 3 GHz.
By means of the dedicated DB-25 connector located in the rear panel of the unit, it can be matched with any type of external coaxial relay to control any high-power installations.

The unit, which is 100% microprocessor-controlled, allows the software-operated configuration of all operating parameters, such as low power threshold, waiting 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 the manual control of switching.
All base-band routing is made by means of fully passive bistable circuitry, in order to grant the signal continuity even in case the changeover unit gets damaged.
The unit features a dual independent mains power system and, as a standard, it is equipped with low voltage DC input for battery supplied systems.

Code	Model	Description
F860.02	**ACU**	Automatic changeover unit for FM & TV Equipment
F860	**ACU-S**	Automatic changeover unit for FM & TV Equip. with Switch 350 W
Available Options	Internal DC Input 24 V or 48 V	

Technical data

Video A , Video B	BNC, 75 Ohm fully passive routing		
Audio stereo	Left A (main), Left B (aux), Right A (main), Right B (aux),		
Audio Connector	standard XLR fully passive routing		
Output Connector	N Type Female 50 Ohm		
Input Sensitivity	-30 dBm nominal ± 20 dB		
Operating frequency	1 GHz		
Average output power	350 W		
Insertion loss	0.15 dB	2 Ghz	3 Ghz
V.S.W.R	1.15	250 W	150 W
Isolation between channels	85 dB	0.2 dB	0.25 dB
Parallel port	25 pin sub-D connector	1.20	1.25

Unit A and Unit B	Fully isolated INPUTS and OUTPUTS 80 dB 75 dB
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)
Temperature operating range	0° to 45° C (Meets ETS 300 019 requirements)
Maximum relative Humidity	90% non condensing
Dimensions (W x H X D) mm	482 x 44 x 450
Weight	5 Kg
Power consumption	Approx. < 50 VA
Nr of power supply boards	2 from 230 V a.c. ± 20%
DC Power Supply	24 V or 48 V floating

Automatic Change Over System

ACS

The ACS model is a universal and flexible automatic change-over unit designed for controlling FM radio and television transmitters or repeaters. In case of damage of one of the main equipment, the ACS automatically switches to the reserve equipment.
The equipment can be used in the applications for active and passive reserve systems, pre- and final stage reserve, (n+1)-systems and for the control of antenna selector switches.
The ACS is designed to control up to six service equipments and one reserve according to (n+1)-systems.
The general switchover criteria as well as the delay time between missing RF signal and switchover, and the priority of the survive transmitter, are freely selectable.
All program specific settings of the service transmitter are effective in case of the switching over to the reserve equipment.
Furthermore, manual switchover and operation of the each equipment via the ACS are possible.
By means of the dedicated DB-25 connector located in the rear panel, the equipment can be connected with any type of external coaxial relays to control high-power installations.
The unit, which is 100% microprocessor-controlled, allows the software-operated configuration of all operating parameters, such as low power threshold, waiting and switching time.
The graphic display is a TFT 6" colour VGA and makes it possible to check the parameter settings and the operational status of the system. The established operating figures and the status of the transmitters and antennas, are respectively symbolically represented in the graphic display.
All the connections to the components of the transmitter system are arranged in the rear part of the unit. The unit features a dual independent mains system and optionally includes a low voltage DC input for battery supplied systems.

Code	Model	Description
F860.02	ACS	Automatic changeover System up to 6 FM & TV Equipment
Available Options	Internal DC Input 24 V or 48 V	

Technical data

Controls	up to six service transmitters and one reserve transmitter in a (n+1)-system
Fast overview	operating status with LED's on the front panel
Status overview	TFT 6" VGA graphic colour display
Serial RS232/RS485	9 pin sub-D connector (software selectable by user)
Ethernet TCP/IP	RJ45 (optional)

Temperature operating range	0° to 45° C (Meets ETS 300 019 requirements)
Maximum relative Humidity	90% non condensing
Dimensions (W x H X D) mm	482 x 132 x 450
Weight	6 Kg
Power consumption	Approx. < 100 VA
Nr of power supply boards	2 from 230 V a.c. ± 20%
DC Power Supply	24 V or 48 V floating (optional)