

# ACU3

## Antenna Changeover Unit 3



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## A main / standby antenna relay

If an error occurs in the main unit, the Antenna Changeover Unit 3 (ACU3) switches the antenna from the main unit to the standby unit. The ACU3 can be fastened to a DIN rail with clips or mounted to the wall of a sub-rack.

## Operating modes

The unit can operate in different modes. Mode selection is done by using the DIP switch located on the board inside the unit. There are two distinct modes of operation; key controlled and alarm controlled. In the key controlled mode, the ACU will select the transmitter that is keyed and stay there until the other transmitter is keyed. In the alarm controlled mode, the ACU3 relay is controlled by the alarm state of the transmitters. Each mode has different options that can be enabled or disabled.

Due to the switching time in the RF relay, a RF delay of 5ms should be set in both transmitters when using key controlled mode.



## Examples

### VoIP system and A/B systems

Key controlled mode should be used. The ACU3 will automatically select the transmitter that is keyed and keep this selection until the other transmitter is keyed. In this mode the selection of transmitter is controlled by the VCS.

### Automatic main/standby system

The ACU3 is set to alarm controlled mode. If the main transmitter (or transceiver) gets an alarm, the ACU3 will automatically switch the antenna relay over to the standby input, put the main unit in standby and activate the standby unit without any action needed from the user. The master select input can also be used to select the standby (B) transmitter to act as the main (A) transmitter. The function will be the same, but the standby unit will act as the main unit and vice versa.

It is also possible to make the ACU3 select between the A and B transmitter automatically. In mode 7, the ACU3 will change between A and B for every 100th key.

### External control

It is possible to control the ACU3's relay with an external control signal. Set the ACU3 to alarm controlled mode. The Alarm input can then be used to control the ACU3, and can be wired to the control signal output of the auxiliary equipment. A low signal on the main alarm input will select the standby input. It is also possible to use the master select as external control. It will have the same function as using the main alarm input.