BECKER AVIONICS

RCU3940
8-Channel Remote Control Unit

Overview

The RCU3940 is a console-mount remote control unit for ATC operator consoles, featuring the capability to remote-control eight transmitters and eight receivers.

It is possible by connecting several RCU3940 in parallel to access the radio channels from various workstations.

The unit is designed as a single module with all of the electronics except the power supply assembly being mounted in a 19"module housing 42 TE x 3 HE

Features

- Microprocessor-based operation
- PC-based configuration
- LED indication on keys
- PTT activation selectable via jumper
- Control over antenna relays
- Built-in loudspeaker

Technical Data

RCU3940	Specification
Operating voltage	24 VDC ± 15%
Current consumption	≤ 1.1 A
AF inputs	8 symmetrical inputs, switchable between 600 Ω and 25 kΩ (transformer with center tap)
AF input level	0 dBm at 600 Ω – 15...+10 dB, adjustable
Squelch	Phantom circuit or separate input (10 kΩ with respect to +operating voltage) low active
Microphone input	Dynamic microphone: 3 mV at 200 Ω Standard microphone: 150 mV at 150 Ω, operating voltage 5 V approx. 10 mA Electret microphone: 10 mV at 700 Ω, operating voltage 5 V approx. 1 mA
AF outputs	8 symmetrical outputs, 600 Ω (transformer with center tap)
AF output levels	0 dB at 600 Ω -15...+10 dB, adjustable
PTT activation	Phantom circuit or open collector (low active), max. 50 V, max. 100 mA
Output power	Speaker output: 2 W at 4 Ω Headphone output: 100 mV at 600 Ω
8 tape recorder outputs	AF output level: -6 dBm (0.375 V) 600 Ω unbalanced
Aggregate signal, tape recorder output	AF output level: -6 dBm (0.375 V) 600 Ω unbalanced
Volume setting	typ. 40 dB drop
Control input	3x (PTT, foot PTT, spare)
Control output	2x open collector to ground, max. 50 V, max. 100 mA
Data interface	
Operating temperature	0...+55 °C
Dimensions HxWxD	128.4 x 213 x 75 mm (5 x 8.4 x 2.9 in)
Weight	< 1.8 kg (4 lb)
Installation	RS232 for configuration