

RC3010 System Redundancy Controller

- The RC3010 is generically a 1:1 redundancy controller capable of monitoring the status of up to 5 pairs of units and controlling 10 waveguide or similar 12/24 V type switches.
- N+1 Redundancy Controller
- Automatic, Manual or Remote control
- Monitoring settings of up to 10 units
- 10 Switch control outputs
- HPA Inhibit feature
- Simple operator interface
- Interfaces to PS3100 power combiner/switch units



Specification

FRONT PANEL FUNCTIONS

Mute and Alarm

Indication of alarms generated by the ARC unit. Press 'mute' key to cancel.

Remote

Indication that front panel is 'locked out' by remote command under optional remote control operation.

Lamp Test

Sequential test function for all front panel LED's

Auto / Manual

Indication of automatic / manual redundancy switching mode. Press 'auto / man' key to select, accordingly.

Unit Status

Current status of up to 5 pairs of transmit / receive chain units.

Switch

Indication of 'on-line'
Transmit / receive chain. Press 'switch' key to select routing to / from chain A / B, accordingly.

Switch and diamond

Indication of 'on-line' transmit / receive chain routing. Press 'switch' key repeatedly to select numerous routing options. Controls and indicates routing for APS unit where appropriate.

ENVIRONMENTAL & PHYSICAL

Power

Indication of RF power level (3 digit display) from RF power detector or via PS3100 unit, where appropriate, displayed in dB's or offset for EIRP reading

REAR PANEL INTERFACE

Unit Status

Status connections to chain A / B units
Two 15 way D-type male connectors

Switch Drive & Tailbacks

Control & monitoring connections to waveguide switches
15 way D-type male (Drive) and 15 way D-type female (Tailback) connectors

Comms (RS485)

Remote connection to optional PS3100 power combiner/switch unit
25 way D-type male connector

Remote Control (factory option)

Remote control connection via RS232 / RS485 interface
25 way D-type male connector

Status

Unit fault status indication to remote location
15 way D-type male connector

Inhibits

Ground free contacts provided to inhibit upconverter or HPA during switching

1U Chassis

-20 to +50°C operating
-40 to +80°C storage

Size

1RU chassis by 390 mm deep

Weight

3.5 Kg approx.

POWER

AC Mains

Filtered IEC plug with fuse and voltage selector

Operating Voltage

100 / 120 / 220 / 240 Vac \pm 10%

Frequency

45 to 65 Hz

Power Consumption

35 VA (typical)