

## Single Channel Desktop Radio Controller    Type **DRC-1**

- Easy to use
- Simple to program
- Custom DSP code
- Full control of base stations
- Local or remote base stations
- Embedded selective calling
- FFSK data exchange capability
- Telephone type handset
- Headset and desk mic options
- Additional accessory port
- RS232 PC interface port
- Full audio monitoring and recording
- Common headset functionality



The DRC-1 has been especially designed for ease of use and installation. The employment of our own DSP code ensures that the unit is flexible and can meet the changing requirements of the radio communications industry.

### **Construction**

The controller is housed in an ergonomic and robust case with a 37-button keypad, a 2 line by 20-character LCD display and a telephone type handset.

### **System facilities**

Each DRC-1 is supplied with a base station line port (4 wire), a handset port, a headset port, a desk microphone port, footswitch PTT input, Auxiliary port, common headset transfer port and a tape recording port plus an RS232 connection that can be used for configuration and programming of the unit as well as for interfacing to a PC for screen based dispatch operation.

### **Programmable Keys**

The DRC-1 is driven by either single keystrokes or by using a nested menu facility. The operator can pre-configure a number of frequently used keys in order to provide quick access to popular system facilities and channels. Access to operator functions is un-restricted however further programming functions within the unit are password protected.

### **System audio levels**

All system audio levels are adjusted by the use of digital potentiometers using the configuration software and are retained in non-volatile memory.

### **System Facilities**

These include call stack, emergency calls with unique alert tones, selective calling, ffsk calling, GPS location solicit, radio to telephone connect, common headset working, alpha tagging of channels, identities and status.

## Channel Termination

During configuration of the DRC-1 the installer has the option to specify one of the following embedded base station protocols: -

*Simoco Base Station* - Full implementation of keytone and supervisory fsk messaging.

*Motorola Base Station* - Full implementation of the Motorola dual tone dual level standard.

*Analogue Control Base Station* - Locally situated base stations that require an analogue interface can be driven directly from the DRC-1 using volt free drivers.

*AW Base Control Panel (TC-1)* - Remotely located analogue base stations can be controlled using the AW base control panel which utilises a proprietary line signalling protocol providing full control and supervisory information including line continuity checking, base facilities and local alarms.

The above facilities, which are all embedded features, are made possible by using bespoke DSP software. This software also enables the encoding and de-coding of selective calling (all formats embedded), ffsk supervisory information and ffsk modem for data exchange with compatible mobiles and portables.

## Recording Facility

The system provides an audio port for recording radio and telephone traffic and is intended to be connected to a local recording and re-play device (re-play through terminal loudspeaker or headset) and both radio and telephone traffic are made available.

## Unit Features

Selective calling	FFSK data signalling
System call stacks	System talkthrough option
Soft key functionality	Local operator recording and re-play facility
Common headset functionality	Alpha tagging of channels
Real time clock	Alpha tagging of selcall identities and status
System upgrade via flash	Use of industry standard cables and connectors
Night Service (auto TT)	Voice over IP operator interface option
Desk top PTT	Optional Footswitch PTT
Headset	Telephone to radio connect

AC Power Supply	90 to 264 volts AC 50 to 60 Hz	Landline interface	4 wire
DRC-1 Power	12Volts 1 Amp DC	Line output levels	-2 to -22 dBm
Dimensions	250 x 220 x 120 mm	Line input levels	-2 to -22 dBm
		Record levels	-10 dBm
		Auxiliary port levels	-10dBm

## Systems Support

We are able to provide customers with installation, commissioning and training services should they be required. Maintenance services are also available.

Because of the extensive use of DSP software we are able to customise signalling standards for specific users. Please contact us to discuss any non-standard requirements.

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