



DRC – 1S Single Channel Radio Remote Control Unit

Key Features

- Simple to use
- Easy to configure
- Low cost
- Durable metal case
- User selectable line signalling
- Modem access
- Speech or data priority setting
- M80 emulation
- Optional integrated microphone
- Internal/external loudspeaker



In Brief

The DRC-1s is an economic and sturdy base station control unit specifically designed with simplicity of use and ease of configuration in mind. It provides full control of remotely located radio sets via 600ohm balanced landlines.

The DRC-1s provides both manual and computer access to, and control over the radio base station, with configurable signalling formats and priority given to either speech dominant or data dominant systems.

Features

The DRC-1s boasts a number of user configurable features; these include the generation of either Motorola Tone Remote signalling or Simoco (2970Hz) key tone and M80 emulation with both local and remote supervisories plus many other configurable features.

Interface to the DRC-1s is via connectors found in a single row at the bottom rear of the case, thus permitting tidy and concealed wiring to the unit. The front panel has tactile pushbuttons for transmit, PTT and facility on/off. LED's provide visual indicators for DC power, channel busy, Transmit, and facility enabled/disabled.

The signalling options are selected via a switch field found on the main PCB card. Full details are supplied with user documentation supplied with the equipment.

The DRC-1s is fully compatible with our TC-1 remote tone receiver unit, should a non Motorola or Simoco base station be deployed or chosen for a new project. Further details of the TC-1 and all of our other products can be found on our customer support web site www.awcsl.com.

External Connectors

| | | |
|-------------------|--------------|--|
| Line Socket | RJ45 | For the connection of four-wire landline |
| Microphone Socket | RJ6 | For an external microphone |
| Auxiliary Socket | DB9F | For external modem connection |
| External PTT | 2Pin | For connection of a foot switch |
| External Speaker | 3.5mm Socket | For an external speaker |
| Power Connector | | For 12v DC power input |

Talk Through Path

The DRC-1s is capable of providing talk through in one of two ways, which is user configurable: either local or remote talk through.

In remote talk through, operation of the talk through switch will cause a signal to be transmitted, which will then engage talk through at the base station. Second operation of the switch will cancel talk through by sending an appropriate signal.

If local talk through is enabled, then operation of the talk through switch creates a talk through path within the DRC-1s by connecting the input line to the output line, and triggering PTT from the receive vox. The vox hang timer prevents syllabic loss during speech pauses. No control signals are sent to the base station in this mode of Talk-through operation.

Level Setting

The level to line is adjustable by use of the internal potentiometers. The adjustment range is +2dBm to -20dBm. Ex factory, the line levels are set to the default standard of -10dBm.

Auxiliary Connector

When the DRC-1s is connected to a computer modem via the Auxiliary port, a logic output signal is set when the operator has PTT engaged (i.e. when the system is in use). Depending upon the data priority, which is user configured, the computer may or may not seize the radio system to use.

The computer can also signal the DRC-1s to mute the loudspeaker while data is being transmitted, preventing unwanted noise interference.

In the interests of continued development, AWCSL reserve the right to change this specification without notice.

A. W. Communication Systems Ltd

Crook Barn
The Crook
Roweltown
Carlisle, Cumbria CA6 6LH

Telephone +44(0) 1697 748777
Fax +44(0) 1697 748778
email sales@awcsl.com
Website www.awcsl.com

