

D20 Printer module - Installation Instructions

24hr Standby
082 444 7176



Description

The RDC Printer Module is designed to convert the RDC standard three-digit telemetry code from a D20/iPRS base station into plain English descriptions and send these descriptions to the printer. The printer interface has its own built in real time clock so that each entry that is sent to the printer is time and date stamped. An internal buffer is provided to prevent messages arriving in quick succession from the base station being lost.

Internal Buzzer

The unit has an internal buzzer and a dry contact relay output, which will activate on the reception of a valid telemetry. An external reset line input is provided to silence the internal buzzer and deactivate the relay, when required by the operator.

Setup

The module is preset at the factory to each customer's needs. There are no configuration settings required, however the output of the RDC D20/iPRS base, should be configured to output the following:

- 1 Digit Prefix
- 4 Digits Radio Code
- 3 Digits Telemetry
- 1 Digit Carriage Return

Please discuss these settings with the RDC Technical Department should you suspect that your equipment is not correctly configured.

In addition, the following basic options should be selected on the printer:

- **Interface** – Parallel
- **Paper Type** – Continuous paper (fan-fold type)
- **Paper Feed** – Tractor feed
- **Carriage Return** – Append line feed <LF> with carriage return <CR>
NOTE: A jumper is provided which will automatically append <LF> after <CR>
- **Bi-directional Printing** – On
- **Print quality** – Draft

As the wording of these options will differ from one printer manufacturer to another, please seek expert IT guidance if in doubt.

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Connections

The printer module requires four cables:

- **Power cable** (*supplied*)
- **Sub D9 female to Sub D9 female cable (Y cable)** connects the printer module to the serial output of the RDC base station (*supplied*)
- **IEEE 1284 parallel printer cable** connects the module to the printer (*not supplied*)
- **Buzzer cable** (*supplied*)
 - Normally open relay contacts for external buzzer, blue/blue cables
 - Manual buzzer reset, black/white cables

Power

The printer module requires a regulated DC supply of between 9V and 18V rated at least 250mA. This supply can be an off-the-shelf wall supply available at many supermarkets or specialist audio / computer dealers OR the supplied power cable can be used to connect to a 12V DC supply that is used to supply the RDC base station. Please note that the RED wire is positive and the RED/BLACK wire is negative – the unit is polarity protected.

If a standard wall AC/DC adapter is used, please ensure that it is set so that the center pin of the DC jack/plug is the positive connection and the outer sleeve is the negative connection.

Operation

Connect the printer module to the RDC base station and then the printer to the module. Finally connect the DC power to the printer module. If the printer has been correctly setup a power up message should be printed with the current time and date. At this point the printer module is ready to accept and print information from the RDC base station.

Date and time

A PC application is available that allows the date and time to be set should it need to be corrected. Please contact the RDC technical department if you require the application.

NB PLEASE NOTE:

Monitoring software changes may be required

The D20 printer module requires RDC's standard three-digit telemetry string (see setup). The same string will be sent from the printer module to your monitoring software. Your monitoring software may already be setup to receive an alternate string from the base station in which case a monitoring software change is required.

Please contact your monitoring software supplier prior to installing the printer interface to make the necessary software changes.

