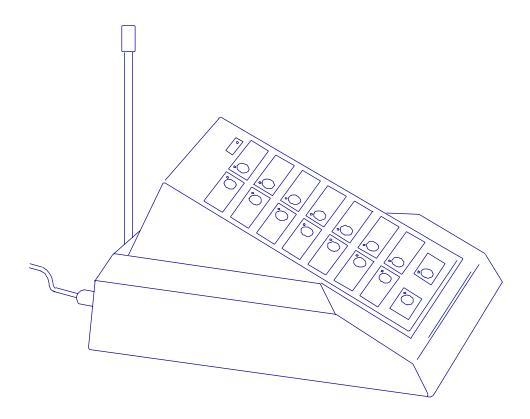# *DataTrack Waiter Call*

Desktop UHF Radio Paging System

Installation & User Manual

PREFACE

Important Installation Information

It is the purchasers' responsibility to determine the suitability of this equipment and its derivatives for any given application, Scope cannot give specific advice in this manual, as each use will require independent evaluation.

Scope has, wherever possible, employed extra safeguards to monitor the system's performance. Certain system installations, operational requirements or budgets may, however, limit the effectiveness of these safeguards. Again, the suitability of the system for any given application must therefore be decided by the installer and their customer, relative to the application and risk.

Good working practice dictates that a suitable system installation log must be generated, together with a record of the dates when the system has been manually checked, (with the aid of signal strength meters etc.) enabling the system performance to be compared with the original installation data.

Scope has no control of the use and application of the frequencies issued by the Radiocommunications Agency. Some equipment that is licensed may have greater protection than other equipment which is operated on a WT Act License Exempt basis.

The supply of this equipment is governed by our standard terms and conditions of sale, which can be found on the reverse of all order acknowledgements*, proforma invoices*, delivery notes, price lists and invoices. Alternatively, these can be provided on request.

* Faxed proforma invoices and quotations refer to "conditions available upon request".

Important Safety Information

Scope products are designed to operate safely when installed and used according to general safety practices. The following requirements should be observed at all times.

Do NOT subject this equipment to:
Mechanical shock
Excessive humidity or moisture
Extremes of temperature
Corrosive liquids

This equipment is designed for indoor use, unless expressly stated otherwise, and must not be used in classified Hazardous Areas, including areas containing explosive or flammable vapours, unless express authorisation has been given in writing by the manufacturer. If in doubt, consult your local product dealer for further information.

Do not obstruct any slots or openings in the product. These are provided for ventilation to ensure reliable operation of the product and to protect it from overheating.

Only use a damp cloth for cleaning (not liquid or aerosol based cleaners), and ensure that any power is removed from the unit prior to beginning the cleaning operation.

Preface

Important Safety Information

Removal of covers from the equipment must only be undertaken by authorised service personnel, who must ensure that power is isolated prior to removal.

Installation

Installation must only be undertaken by an Approved contractor, who shall ensure that all work is carried out in compliance with IEE Wiring Regulations. For mains powered equipment, a readily accessible isolating fuse or switched socket must be located within 1 metre of the equipment.

No User Serviceable Parts

Alteration or modification to any part of this equipment, without the prior written consent of the manufacturer, will invalidate all Approvals and Warranties attaching to the equipment. Further liability for the operation of the equipment, under the applicable law, will pass to the user, who will absolve the manufacturer of any further responsibility for it's correct operation and use.

Liability

Scope does not accept liability for any damage or injury, howsoever caused as the result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task.

Warranty

This product is warranted as free from defects of workmanship and materials for a period of one year from the original purchase date. During this time, if there is a defect or malfunction of this product, Scope will, with proof of purchase, repair or replace at it's discretion any defective parts, free of charge. This does not include where the adjustments, parts and repair are necessary due to circumstances beyond the control of Scope, including but not limited to fire or other casualty, accident, neglect, abuse, abnormal use or battery leakage damage.

System Overview

The Scope DataTrack Waiter Call is a desktop radio transcoder that can be used to transmit numeric and multi-call/pulsed vibrate messages direct to pocket pagers carried by individuals or entire groups. The system has 14 individual call buttons that can transmit any of three different call types direct to the user's pager.

Options

1) Desk mount unit with right angle antenna.   **Model DTWC**
2) Wall mount unit with bracket kit and straight antenna.   **Model DTWCW**
3) Both the above systems can also be ordered with Single Call (**S**) software*

* add **S** suffix to part number e.g. **DTWCS**

Base Equipment type & description: **DataTrack Waiter Call, desktop paging transcoder**

Transmitter ID: **DATALINK**

Transmitting Frequency: **458.700 MHz or 458.650MHz***
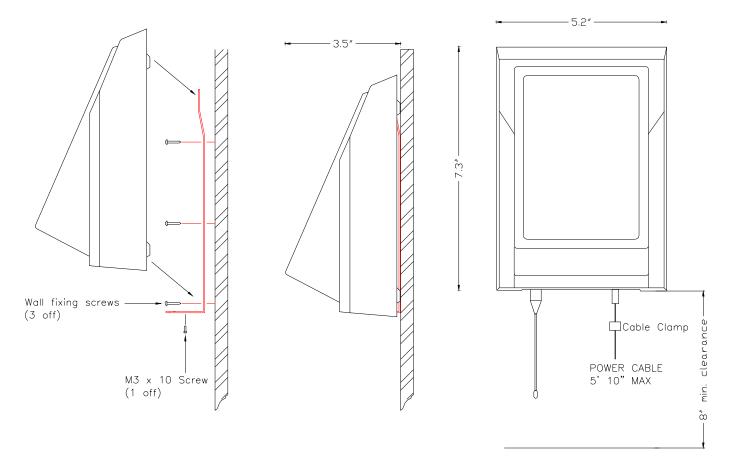
Effective Range: **Up to 1 mile with standard aerial**◆

*or as specified on order documentation
◆optional external aerials and amplifiers available for greater range

Section 1: Installation

Location of the hardware

Desk mounted units

1 Fit the right angle antenna to the BNC connector at the rear of the unit. Twist the collar clockwise until it locks into place. Ensure the antenna is in the upright position (see diagram 2, page 6).

2 Fit the power connector into the socket provided at the rear of the unit. Ensure this is pushed in as far as it will go. Plug in the AC adaptor to a suitable mains (110V ac) wall outlet.

3 Check the location of the DataTrack unit, observing the recommendations detailed on page 5.

Wall Mounted Units

1 Identify a suitable location for fixing the unit, observing the recommendations detailed on page 6.

2 Ensure that a minimum of 8 inches beneath the intended location is left clear for the antenna, and check that the power cable, when fitted, is within reach of a mains wall outlet.

3 Using the bracket provided as a template, mark out the position of the three holes. Check that the bracket is vertical prior to fixing. Drill and fix the bracket to the wall using suitable wall plugs and fixing screws.

4 Offer up the DataTrack unit and slide down onto the bracket, checking that the lugs on the bracket fit either side of the lip on the DataTrack base.

5 Fit M3 screw to the base of the unit and tighten until the bracket is locked in place.

6 Check that the unit is secure, then fit the antenna and power connector (as in 1 & 2 "Desk mount units" above). The power cable should be adequately clamped to the wall to prevent accidental removal.

Diagram 1: Wall mounting the DataTrack unit

Wall fixing screws (3 off)

M3 x 10 Screw (1 off)

3.5"

5.2"

7.3"

Cable Clamp

POWER CABLE 5' 10" MAX

8" min. clearance

Some major points to consider when installing equipment:

1   Avoid placing the DataTrack in the immediate vicinity of telephone exchanges or computer equipment.

2   Also remember that the performance of the system will be affected by the type of material the unit is mounted on and its surroundings.

        The following is a list of materials that this transmitter will be adversely affected by if placed in close proximity to:

        a)   Foil backed wallboard
        b)   Metal mesh or wire reinforced glass
        c)   Metal sheeting, large mirrors or suspended ceilings
        d)   Lift shafts

        All of the above can reflect radio waves and thereby reduce the capability of the transmitter to perform its desired functions.

3   The circuit boards within this equipment may be harmed by Electrostatic Discharge (ESD). There are no user serviceable parts and removal of the unit's cover will invalidate any warranty unless undertaken by an authorized engineer.

4   *Warning!* Never transmit without an aerial attached to the transmitter

Operation

Prior to operation, check that the Waiter Call keypad unit has it's aerial correctly fitted and that the 12v power lead is firmly plugged into the socket provided at the rear of the unit.

The red POWER light on the fascia panel will be lit to indicate that the power is connected and the unit is ready for use. If the light is not on, check that the lead is plugged into the back of the unit and the AC adapter supply is fitted to a live mains socket.

Write the names of the servers on the keypad in the white boxes provided. Only use approved markers or wax pencils. Indelible markers will irreparably damage the surface of the keypad.

Standard (multi-call/pulsed vibrate) Software

To call a Server, briefly press the relevant button on the keypad. A red light will come on at the corner of the button to acknowledge the button press and confirm that the message has been transmitted. The light will stay on for around 30-40 seconds after the key press to confirm the server has been called. After this the light will flash for approximately 15 seconds before extinguishing automatically. This helps to prevent the server from being repeatedly called unnecessarily.

When the pager receives the call it will vibrate for a short burst and display the message "---1---" to indicate call type one.
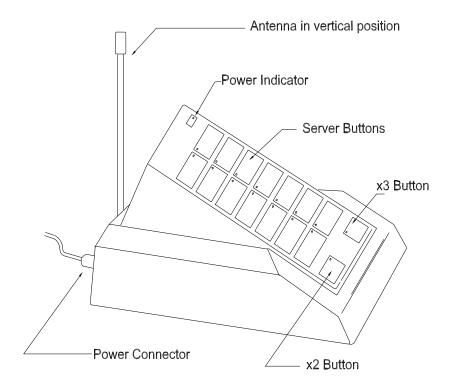
You can send two other call types to the pager by pressing either the X2 or X3 button prior to selecting the server.

The red light will come on at the corner of the X2 or X3 button to acknowledge the button press. This will stay on until the appropriate sever button has been pressed, where upon it will extinguish automatically. In the event that you select an incorrect button pressing the same the button (X2 or X3) will cancel the call type.

When the pager receives the call X2 it will vibrate for a two short bursts and display the message "---2---" to indicate call type two.

When the pager receives the call X3 it will vibrate for a three short bursts and display the message "---3---" to indicate call type three.

Diagram 2: Desk mounted DataTrack configuration

Important Note! In the event that you wish to send multiple calls to different servers one after the other, always start with any calls requiring the X3 prefix. Wait for the X3 light to go out before sending any calls requiring the X2 prefix. Again wait for the X2 light to go out before sending standard calls.

Non-standard (Single Call) software

Operation is the same as the Standard software described above, with the following difference:

For all call types, the pager will only vibrate (or beep) for a single burst. The pager will, however, still show the call type (---1---, ---2--- or ---3---) on it's display.

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Specification

System Operating Voltage: 12 to 13.8V dc

System Power Consumption: less than 200uA (micro Amp) standby, 300mA transmit.

Transmitter:

Frequency Range: 450-470 MHz

Channel Spacing: 25 KHz or 12.5KHz

TX Baud Rate: 1200

POCSAG   Numeric or Alpha

General:

Footprint (mm):   220 (L) x 130 (W) x ◆90 (H) max *

Mounting   Desk or Wall mounted with optional bracket

◆excluding aerial

Scope's policy is one of continuous development and specifications are subject to change without prior notice