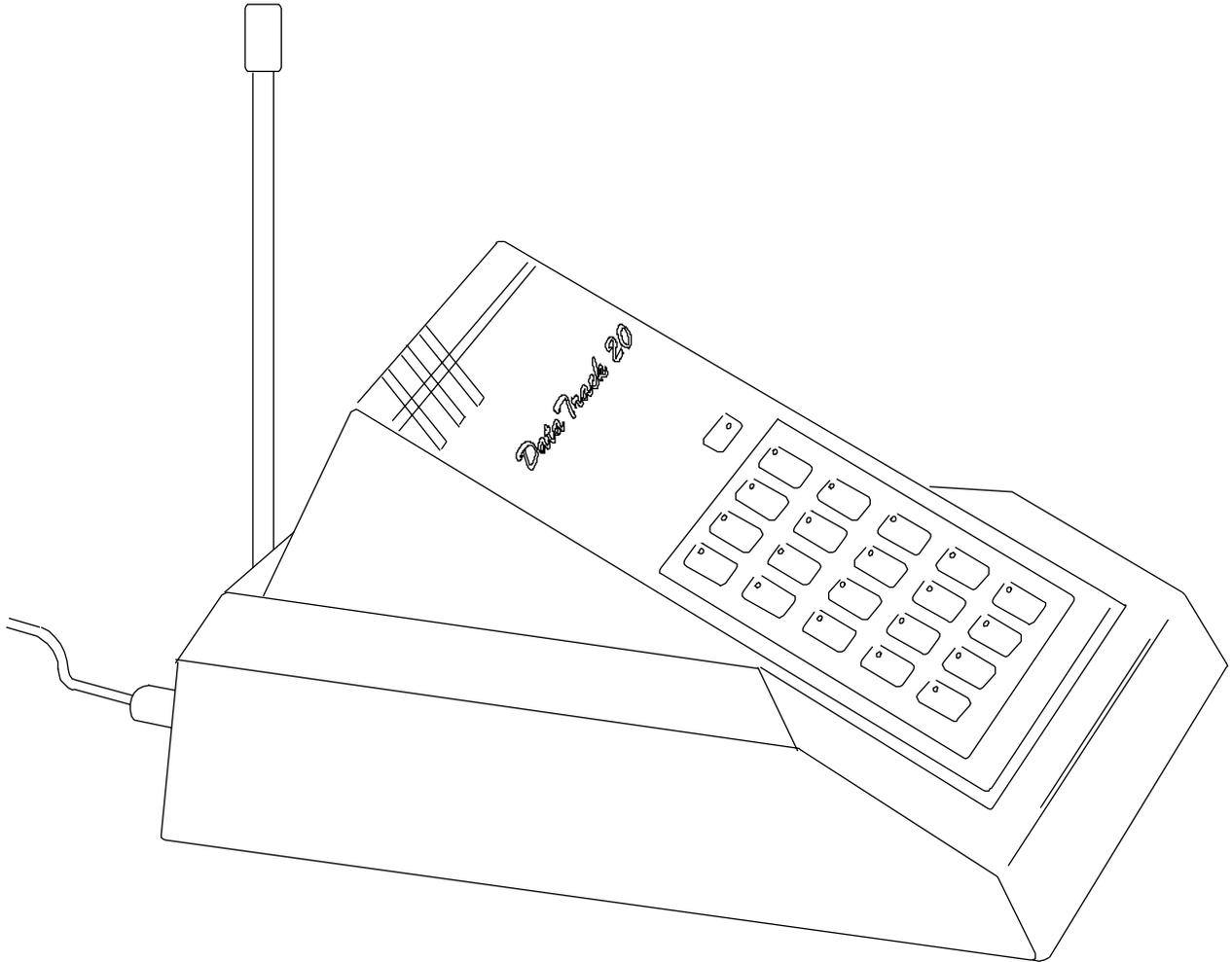




DataTrack 20

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.

This product complies with the essential requirements of the R&TTE Directive 1999/5/EC
Copies of the Declaration of Conformity covering this product can be obtained from Scope at:
Quantum House, Steamer Quay, Totnes TQ9 5AL United Kingdom.

Do not discard. At end of life this equipment must be sent to an authorised waste treatment centre. Contact Scope at the above address for further details.



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System Overview

The Scope DataTrack 20 is a desktop radio transcoder which can be used to transmit both text and numeric messages direct to pocket pagers carried by individuals or entire groups. Data can also be transmitted to a central controller for sorting and re-routing to pre-programmed groups and individuals. Information is input by way of a 20 way keypad which transmits the message data either via the central controller or directly to the assigned pager.

Options

- 1) Desk mount unit with right angle antenna. **Model DT**
- 2) Wall mount unit with bracket kit and straight antenna. **Model DTW**

Base Equipment type & description: **DataTrack 20, desktop paging transcoder**

Transmitter Type Approval No: **4213 DT**

Transmitting Frequency: **458.700***

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).

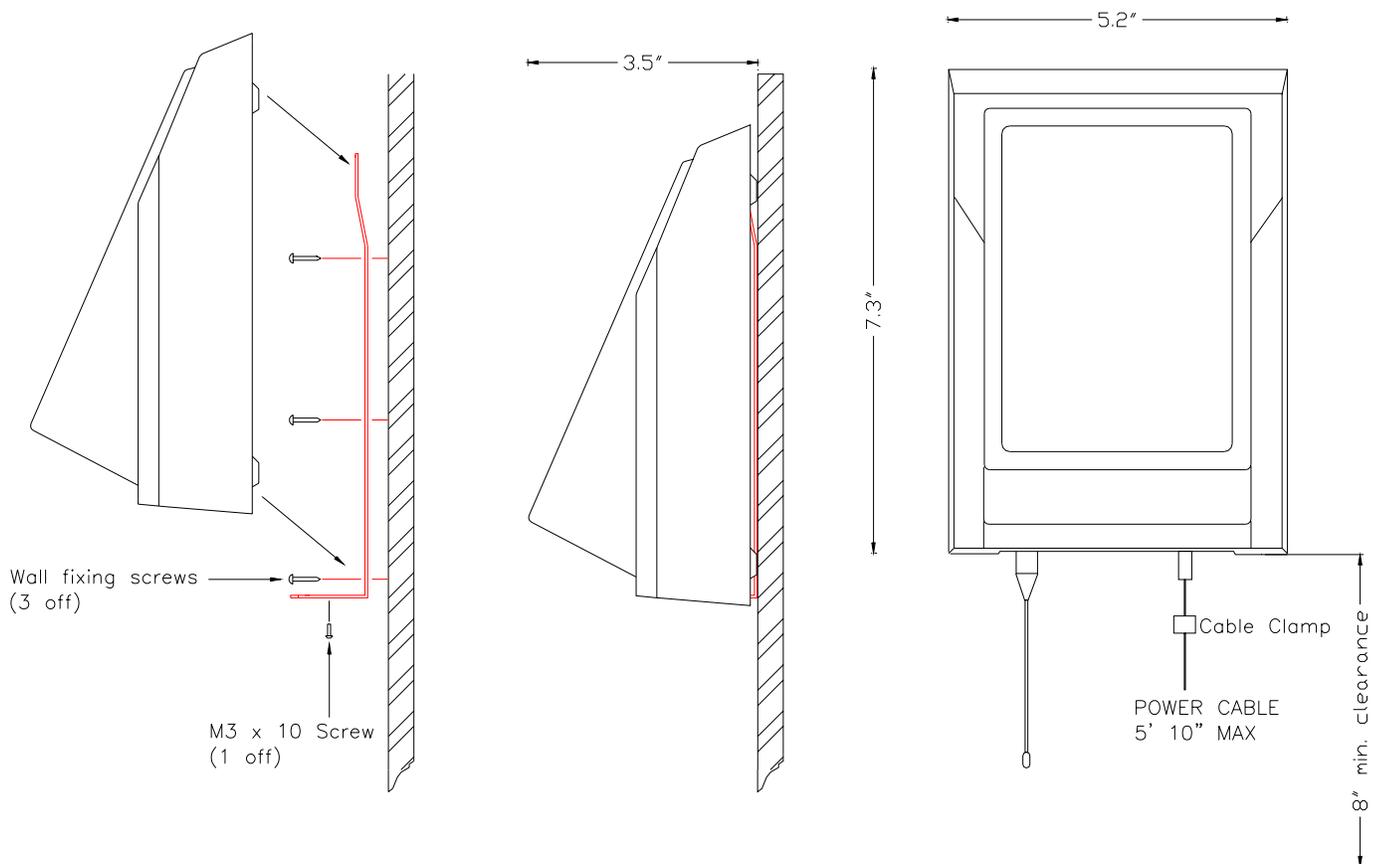
2 Fit the power connector into the socket provided at the rear of the unit. Ensure this is pushed in as far as it will go. Plug in the AC adaptor to a suitable mains (230V ac) wall outlet.

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 5.
- 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



Some major points to consider when installing equipment:

- 1 Avoid placing the DataTrack 20 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 wall board
- 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

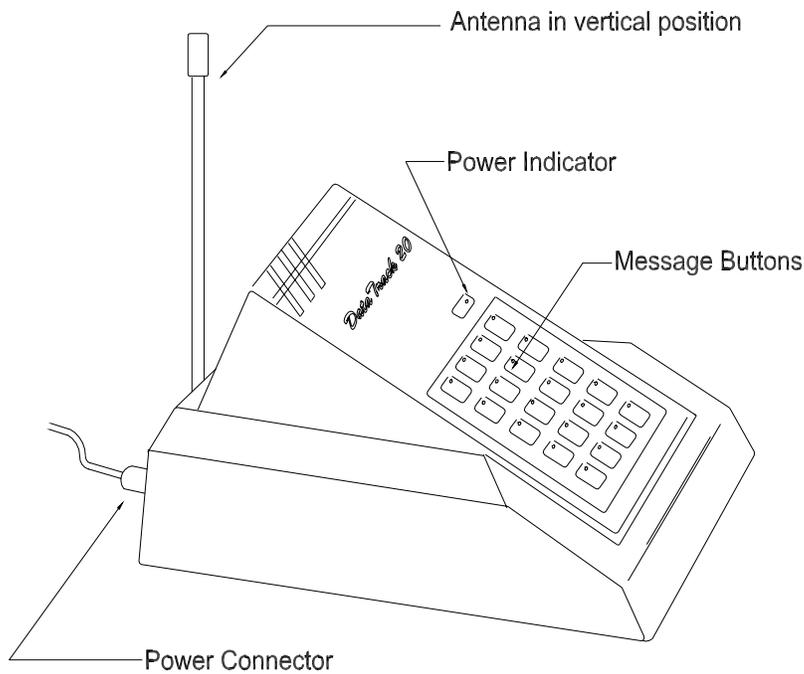
Operation

Prior to operation, check that the DataTrack keypad unit has its 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.

To call a pager, 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 extinguish on all lit keys when the Cancel button is pressed.

Diagram 2: desk mounted DataTrack configuration



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
Type Approval No.	4213 DT

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