

ANTENNA TUNER

9103



CODAN
COMMUNICATIONS



9103 Antenna Tuner

The 9103 base antenna tuner has been designed for operating with most end-fed long wire and whip antenna systems in fixed land station applications.

IN-BUILT MEMORY

The 9103 features an in-built memory, which stores the tuning configuration used to tune a particular channel frequency. The tuning configuration can be accessed within 10 milliseconds when that channel is used again. The memory is capable of storing hundreds of individual tuning configurations.

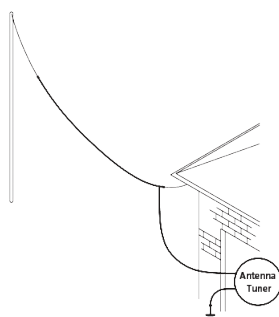
EASY TO INSTALL AND OPERATE

Housed in a weatherproof case, the 9103 is supplied complete with mounting bracket, 10 or 30 m control and coaxial cables (please specify when ordering), and an installation and operation handbook.

MULTI-FREQUENCY OPERATION AND EASY TO INSTALL

The tuned long wire antenna is ideal for field crews who require an antenna that can be quickly and easily erected at temporary camp sites or similar locations. It may also be used in permanent installations where space is limited.

The antenna is supplied as a kit for installation and includes halyards, pulley, earth wire and strap, and a complete set of installation instructions.



Tuned Long Wire Antenna

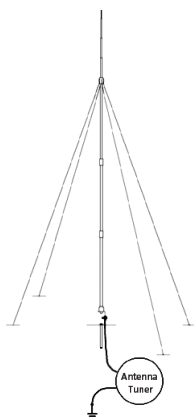
ASSOCIATED ANTENNAS

Tuned Long Wire Antenna

The Tuned Long Wire Antenna may be used for either temporary or permanent fixed station installations, and is suitable for multi-frequency operation with most Transceiver systems with a Base Antenna Tuner.

Guyed Vertical Whip Antenna

The Guyed Vertical Whip Antenna is designed for installation on buildings or open ground and is suitable for most transceivers operating with a base antenna tuner. Manufactured from tempered corrosion-resistant aluminium alloy tubing, the antenna is supplied unloaded and self-resonant at 7.5 MHz.



Guyed Vertical Whip Antenna

ACCESSORIES INSTALLATION

The Guyed Vertical Whip Antenna is supplied in kit form ready for erection and is available with an adjustable angle base plate and ground spike for open ground installation (15-00406-001), or with a hinged angle bracket for roof mounting (15-00406-002). Guy anchors are not included in the kit.

For efficient operation of the Antenna, a good earth system is necessary. When erected on open ground, an earth mat consisting of at least four wire radials (15-00158) extending as far as possible from the base is desirable, especially in dry ground conditions. A radial ground plane (15-00159) is recommended for roof-mounted installations.

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SPECIFICATIONS

BASE ANTENNA TUNER

Power rating	125 watts (PEP) voice
Size and weight	284 mm W x 70 mm D x 350 mm H; 3.5 kg
Power requirements	12 V DC nominal (supplied from the transceiver or power amplifier) 0.9 A nominal
Input impedance	50 Ω , unbalanced
Length of antenna	Length of antenna feeder and earth connection – 3 m minimum (tuning range 3.3 to 30 MHz) Recommended maximum length – 15 m (tuning range 1.6 to 30 MHz) Length of antenna may need to be varied slightly to cover all frequencies in use
Operating temperature range	-35 to +70°C

TUNED LONG WIRE ANTENNA

Antenna length	Approximately 20 m (shorten as necessary)
Material	PVC coated multi-stranded steel wire
Recommended height	12 m at the high end

GUYED VERTICAL WHIP ANTENNA

Frequency range	1.6 to 30 MHz, self-resonant at 7.5 MHz
Antenna length	9.5 m
Guy system	One set of four glass fibre, vinyl covered, 4 mm diameter ropes, anchored on a radius of not less than 3 m from the antenna base; recommended tension is 4 kg
Packed weight	15-00406-001: 12.5 kg 15-00406-002: 8.5 kg

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

ACCESSORIES

Base Antenna Tuner

- **15-00163:** 1.8m copper clad steel earth rod complete with copper strip and clamps
- **30-37601-002:** Copper earth strip 50 mm x 0.46 mm (26 gauge) for connecting transceiver and tuner to an earth point (supplied per metre)

Guyed Vertical Whip Antenna

- **15-00158:** Earth mat for Guyed Vertical Whip Antenna (15-00406-001), ground installations
- **15-00159:** Radial ground plane for Guyed Vertical Whip Antenna (15-00406-002), roof installations
- **15-00163:** 1.8m copper clad steel earth rod complete with clamp
- **08-01503-006:** Coaxial cable assembly (RG58) fitted with UHF type weatherproof connectors, 6m
- **08-01503-030:** Coaxial cable assembly (RG58) fitted with UHF type weatherproof connectors, 30m
- **15-00444:** Coaxial cable assembly (RG213) fitted with UHF type weatherproof connectors, 30m and supplied with a suitable cable strain relief