HF/VHF Telescopic MultiWide Band Antenna
HF-PRO-2-PLUS-T

ENG

Specifications

Frequency range	3.5(coil) /7~30 + 50 MHz + 145 MHz VHF
Max. Power Rating	130W (SSB)
Impedance	50 Ω
Antenna Length	29cm (disassembled) / 262.5cm -270.5cm 11.42 inches / 103.35 - 106.50 inches
Weight	425g
Connector	PL-259
Antenna type	Loaded ¼ wave vertical (HF band) ¼ wave (50MHz) and 5/8 λ wave (145 MHz VHF)
Antenna parts	Adjustable coil for 7 for 7~30 MHz, add-in coil for 3.5 / 4.00 MHz (80m) band. stainless steel 11 sections telescopic rod: - Length collapsed: 24cm / 9.45inch - Length extended: 218cm / 85.83inch
Coil form composition	Fibre Reinforced Polymer (FRP)

Notes for Using the Antenna

To use your **HF-PRO-2-PLUS-T** from Komunica® antenna correctly, please read these instructions thoroughly before use and keep this document on-hand for later reference.
The **HF-PRO-2-PLUS-T** from Komunica® is intended for use by Radio Amateurs only within their authorised frequency bands. For use on some amateur bands an antenna tuning unit may be required.

Please note:

1. Thanks to its small size and light weight, this antenna can be used for portable SOTA and Park activations, etc. while still providing the best performance.
2. The **HF-PRO-2-PLUS-T** has been designed for use as stationary antenna and is not designed for use on a moving vehicle.
3. To get the best performance from the **HF-PRO-2-PLUS-T** use of an Antenna Coupler (ATU) is recommended but not mandatory.
4. The **HF-PRO-2-PLUS-T** should not be installed as a permanent home station antenna as it is not designed to withstand storm force rain and winds.
5. Do not touch the antenna during transmission as this may cause electric shock or an RF burn.
6. When mounting or detaching the antenna from a base, take care so as not to cause personal injury with the whip.

Description

1. The **HF-PRO-2-PLUS-T** is designed to operate on the HF amateur bands between 3,5 and 7-30MHz plus 50MHz.
2. The antenna is tuned to the required operational frequency by adjusting the coil up and down adjustment.
3. **To operate on the 3.5 MHz band**, installation of the additional coil (N.2) is required between the body of the antenna (N.3) and telescopic whip (N.1).
4. **To operate on 50MHz**, simply reduce the telescopic whip element length on top of the retracted N1 body to a length of 131 cm.
5. Thanks to the fibre reinforced polymer (FRP) material with which Komunica® has manufactured the **HF-PRO-2-PLUS-T**, the antenna is both lightweight & flexible while also being small when packed so making it easy to carry.
6. **To operate on 145 MHz**, both the movable coil (N3) and the telescopic rod (N1) are reduced to their minimum length (24cm). The SWR within this band can be as low as 1.5:1.

Adjustment

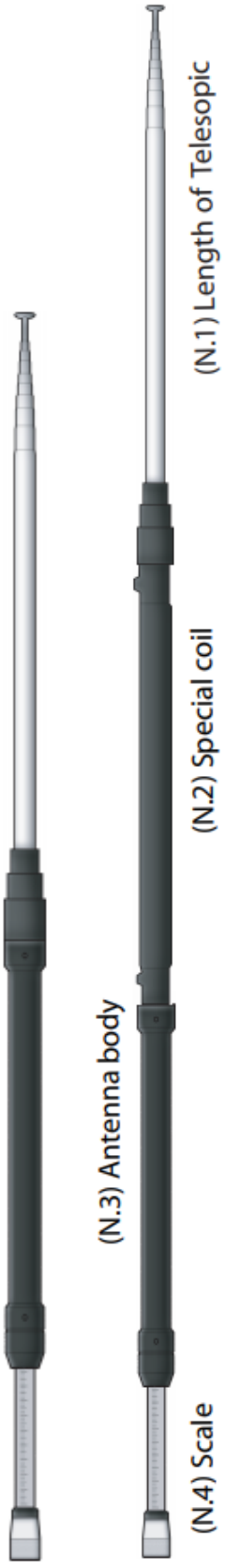
1. When using on a static vehicle: Connect your Komunica® **HF-PRO-2-PLUS-T** to a stable magnetic base of a suitable diameter (recommended Model: Komunica® TRIPLE-MAG) or use a solid PL-259 mount, connected securely. Pre-assemble the antenna and adjust its length with reference to the coil settings graph.
2. To be able to adjust to the required length loosen the locking nut by hand.
3. To select the required frequency band, set the position of the antenna body N3 over the scale N4 to coincide with the value shown in the chart on the right.
4. Lightly tighten the locking ring by hand.
5. For fine tuning on HF, always perform your TX tests with the lowest RF power possible. Move the coil up or down until you have fine-tuned to the desired frequency.
7. Once the tuning is correct, you can already increase the power, up to respecting the maximum power of 130W-SSB.

Note ⓘ

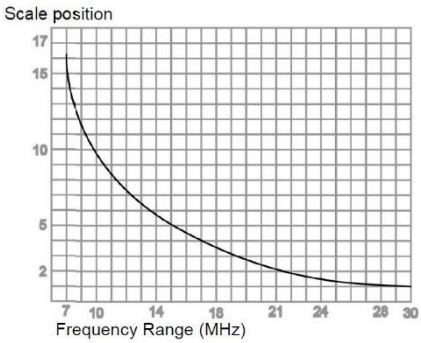
Should the SWR level be higher than 1.5:1 in use on HF, please check your ground plane or change the location of your antenna on the car.
Use an Antenna Tuner for maximum flexibility.

Recommendation

This wide band antenna can have its effectiveness reduced due to propagation conditions.
To provide flexibility it is recommended to use an antenna tuner with this antenna.
The **HF-PRO-2-PLUS-T** has been manufactured under strict quality controls, if damage is caused during shipping, please contact your dealer promptly.
Design and specifications of this antenna can be changed at any time



Coil positioning chart



This chart is indicative and refers to a standard adjustment scale that may change depending on each site and installation method. It offers indicative measurements only.
To operate at 50MHz, always have element N3 retracted and the telescopic rod (N1) adjusted to a length of 131cm (about -4 of the upper sections of the telescopic section extended).

Installation options.

1. When using PL-259 antenna mount (boot bracket, rail bracket, etc.). Install it where there is a good ground to the car chassis. If you are not going to install on a vehicle, remember to use an appropriate counter poise or radials on the antenna.
2. To install your Komunica® **HF-PRO-2-PLUS-T** on the vehicle roof using a magnet, your vehicle roof will act as an excellent ground. Position the magnetic mount as close to the center of the available metal as possible. Should your car have limited amount of metal in tis roof. You can use our Komunica® HF-MAG accessory as a ground plane.
3. If you wish to operate your **HF-PRO-2-PLUS-T** on a non-metal surface, remember to use at least 10m of wire as a counterpoise to the antenna.
4. Ideal portable operation is possible using the Komunica® telescopic tripod (**TRIPOD-KIT**). It is very light, compact, and easy and quick to assemble anywhere. It includes 8 Radial wires that may be simply laid across the ground and their ends pegged down.
5. Installation on a balcony metal railing is also possible as the railing will act as a ground plane. It is recommended to use an “L” shaped bracket for such an installation.

HF-PRO-SERIES Accessories:

TRIPOD-KIT
Telescopic Tripod
Extendable 5 sec.

TRIPLE-MAG
Magnetic base
with triple magnet
maximum
adherence
3pcs x 9cm
Connector: SO-239
Cable RG-58 (5mts)

HF-MAG
7 ~ 50MHz
Magnetic
Ground Plane
Attachment