



# HF-PRO-2-PLUS-T

HF Portable Multi-Wide Band HF / VHF,  
Telescopic System Antenna

3.5MHz (coil) / 7~30 / 40 / 50 / 70 Mhz + VHF  
Max. Power Rating: 130W (SSB)  
Maximum length: 270 cm



**Compact size**  
Disassembled 29 cm



# Specifications

- **Frequency:** 3.5 MHz (coil) +7/30 + 40 MHz + 50 MHz + 70 MHz + VHF
- **Max. Power:** 130W (SSB)
- **Impedance:** 50  $\Omega$
- **Weigh:** 425g
- **Connector:** PL-259

- **Lenght:**
  - 29cm (Disassembled)
  - 270,50 cm (Maximum Lenght)
- **Type:**
  - Loaded  $\frac{1}{4} \lambda$  vertical (HF band)
  - $\frac{1}{4}\lambda$  (50MHz) and  $\frac{5}{8} \lambda$  (145 MHz VHF)

## Coil

### Composition

Fibre Reinforced Polymer (FRP)

### Coil Band

3,5 / 4,00 MHz (80m)

### Lenght

17 cm



## Lenght

### Disassembled

29cm



## Telescopic Whip stainless steel

11 sections

### Folded Lenght

24cm / 9,45 Inch

### Maximum Lenght

218cm / 85.83 Inch



# Notes for Using the Antenna

“ Please read these instructions carefully before use and keep this document on-hand for later reference “

**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**

HF-PRO-2-PLUS-T 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**

Do **not touch the antenna during transmission** as this may cause electric shock or an RF burn.

# Description

**The antenna is tuned to the required operational frequency by adjusting the coil up and down adjustment**

## 3.5 MHz

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) fully extended.

**Please always remove this coil (N.2) when other bands using.**

## 7-30MHz

To operate from 7-30MHz, install the telescopic rod (N.1) over the body antenna (N.3). Important: the telescopic rod (N.1) must always be fully extended to its maximum length. The fine tuning will be achieved by slightly moving along the scale(N.4) until reaching the ideal measurement (lowest SWR) for each frequency.

## 50MHz

To operate on 50MHz, simply reduce the telescopic whip element length on top of the retracted (N.1) body to a length of 131 cm.

## VHF 145MHz

To operate on VHF 145 MHz, both the movable coil (N.3) and the telescopic rod (N.1) are reduced to their minimum length (24cm). The SWR within this band can be as low as 1.5:1.



**N.1** Length of Telescopic

**N.2** Special Coil

**N.3** Antenna Body

**N.4** Scale

# Adjustment

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 (1.1).

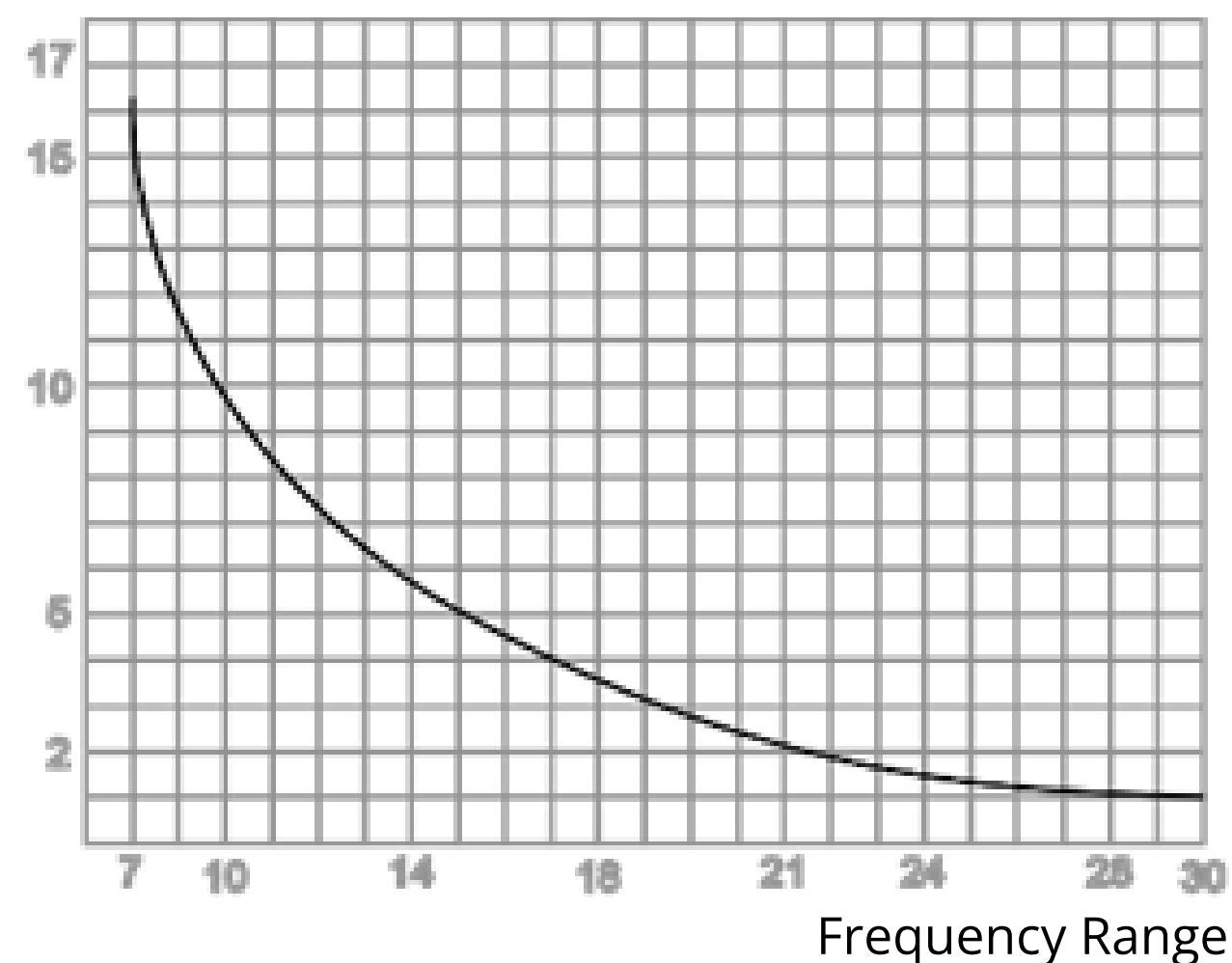
Lightly tighten the locking ring by hand. Never use tools such as pliers, as these could damage your Komunica® HF-PRO-2-PLUS-T

## 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.

## Coil positioning chart (1.1)

Scale Position



This chart is indicative and refers to a standard adjustment scale that may change depending on each site and installation method. It offers only indicative measurements, no exacts.

# Installation : on the vehicle

To install your Komunica® **HF-PRO-2-PLUS-T** on the vehicle, please check the best place to install a magnetic base, or strong mount in your vehicle. Check for the best ground plane.



## TRIPLE-MAG

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

# Installation: on a non-metal surface

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 antenna.



# Installation on telescopic tripod:

## TRIPOD-KIT

- 1 Ideal portable operation
- 2 Very light, compact, and easy and quick solution for QRP, SOTA, etc. Fast to assemble anywhere.
- 3 It includes 8 Radial wires that may be simply laid across the ground and their ends pegged down.



## KOMUNICA QRP KIT

includes:

- Telescopic Tripod
- Galvanized Plate
- Base
- Cables





# Installation: on a balcony metal railing

Installation on a balcony metal railing can be a good solution because the railing will act as a ground plane.

It is recommended to use an "L" shaped bracket for installation.



# HF Accessories Selection



## TRIPOD-KIT



## HF-MAG



## TRIPLE-MAG



# HF-PRO Series

## Wide range antennas

Discover Komunica's portable range  
specifically for HF bands

