



Automatic Antenna Tuning Units

4002 and 4006 | 2-30MHz | 150W



Figure 1 – 4002/4006 Automatic Tuning Unit

The Lencom® 4002 and 4006 are designed specifically for vehicular whip antennas, and are rapid, highly efficient, reliable tuners.

The 4002 is optimised to tune a 1.6m whip from 2.5-30MHz with a VSWR typically of 1.5:1 or better. An optional 800mm riser enables operation from 2 to 30MHz.

The 4006 is identical, but can also tune whips up to 10m in length.

The unique tuning algorithm provides a memory-tune location for all frequencies.

With memory tuning time of <130ms, these tuners are ideal for networks using ALE and/or frequency hopping, with tuning times for new frequencies average less than 1 second.

They are extremely rugged, and meet MIL-STD 810F for waterproofing (IP67), shock, vibration and dust ingress.

A wide range of accessories are available, please refer to Page 3.



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KEY CHARACTERISTICS

RF/Electrical:

<i>Frequency range</i>	
<i>Whip length 2.4m to max</i>	2-30MHz
<i>Whip length 1.6m to 2.4m</i>	3-30MHz
<i>Power rating for full data transfer</i>	
<i>Whip length 2.4m to max</i>	150W
<i>Whip length 1.6m to 2.4m</i>	125W
<i>Input impedance</i>	50Ω
<i>VSWR</i>	Typically < 1.5
<i>Tune Time</i>	Memory 130ms Initial Tune 1s (typical)
<i>Power Consumption</i>	
<i>Tuned</i>	400mA Typical
<i>Tuning</i>	<800mA
<i>Memory Channels</i>	Unlimited
<i>Efficiency</i>	Up to 95% (whip length dependent)

Mechanical:

<i>RF connector type</i>	N socket
<i>Control connector type</i>	6 Pin Bayonet
<i>Operational Temperature</i>	-20 to +55°C
<i>Finish</i>	Powder coat in white or military green
<i>Enclosure</i>	Bespoke aluminium housing sealed to IP67
<i>Shock and Vibration</i>	Rated to MIL-STD 810F
<i>Dimensions</i>	300mm (L) x 210mm (W) x 95mm (H)
<i>Weight</i>	2.4kg



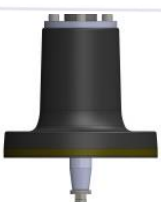
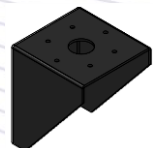




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Data Sheet

AVAILABLE ACCESSORIES

<i>Antenna Mounts/Brackets</i>		
	Flange Mount HV base	02-4024
	Single-hole HV base	02-4022
	Military HV base	03-4715
	Mounting bracket	60-4017
<i>Radiators</i>		
	Long wire (9m)	02-2181
	Large range of whips for military or commercial in stainless steel, fibreglass and carbon fibre	