

### 1kW Antenna Tuner 02-4100 | 1kW

02



Figure 1 - Tuner with Shock-mount

The Lencom® 02-4100 is a modern, fast, automatic tuner that handles up to 1kW inputs and provides flexible options for control and scanning.

The Tuner uses Lencom's custom tuning algorithm to identify the optimum settings for each frequency. Once the initial tune is complete, the tuner swaps seamlessly between memory tunes with tune speeds of 500ms or less.

The 02-4100 comes with its own Power Supply and includes a number of control options such as:

- Bypass to an auxiliary receive antenna for scan
- Tuner on/off controllable by the radio
- Smart fault reporting

The 02-4100 is designed to have a very low tuned power state both to conserve power and to minimise noise.

With cable lengths up to 100m, the tuner can be located well away from the radio and power supply.

The auxiliary receive antenna can be any broad band antenna running up to 12V 1A. Lencom offers an Active E-probe or Active Broad band Loop.

When attached to the optional shock-mount, the 02-4100 is a rugged solution that is rated to MIL-STD-810G for shock and MIL-STD-167-1A for vibration.



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## **Key Characteristics**

#### Main Unit

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Frequency range	0.00441		
Wire 23m to 46m (75-150ft)	2-30MHz		
Whip <sup>1</sup> 15m (48ft)	2-30MHz		
Whip 10m (32ft)	2.5-30MHz		
Whip 5m (16ft)	3-30MHz		
Power rating	1kW PEP and Average		
Duty Cycle	Full voice and data		
Input impedance	50Ω		
VSWR	Typically < 1.5		
Tune Time	Memory 500ms   Initial Tune 5s (typical)		
Tune Power	20W Nominal 40W Max		
Memory Channels	Unlimited		
Tune Modes	Fully Automatic and Memory.		
Control connector type			
From radio	D 9 pin		
Between PSU and Tuner	D 15 to 10 pin MS		
RF connector type	N socket		
Auxiliary receive antenna connector type	TNC		
Auxiliary receive antenna power	12V 1A		
Operational Temperature	-20 to +55°C		
Finish	Marine grade paint – haze grey/desert sand/white		
Enclosure	Aluminium sealed to IP67		
Certifications	CE for EMC   MIL-STD-167-1A and MIL-STD-810G (with shock mount)		
Dimensions	350 x 380 x 330mm		
Packed dimensions/weight	500 x 500 x 500mm 25kg		

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 $<sup>^{1}\,</sup>$  For whip operation, the whip needs to have a radiating diameter of at least 40mm

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**Power Supply** 

Input voltage	115-230V	
Dimensions	2RU	
Power connector type	10A IEC (fused)	
Control connector type	D15	
AC power switching	Tuner switching may be slaved to radio or independent	

### **Available Accessories**

Radiator	Auxiliary Receive Antenna	Cables	Mechanical
Long wire 7.7m Whip 9.5m Whip	Active E-probe Broadband Loop	Up to 100m as specified	Shock mount Sun shade Stub mast Wall bracket Ground mat Earthing kit

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