



MSRA ATU

Automatic Antenna Tuning Unit suitable for the HF Band



A high quality HF tuner of American manufacture, chosen by Moonraker as a suitable compliment to its range of HF antenna systems.

The MSRA ATU features microprocessor controlled switching of lumped C and L. Many different configurations of Pi or L networks are possible. No connection to the transceiver other than the RF coaxial cable and a 12 volt supply is required. A switched low control line output is provided to operate a remote tuned indicator if required. Connection for the earth system is also provided.

The unit is housed in a weatherproof case; being designed for external operation close by the antenna feed point. All external connections are by way of stainless steel terminals or sealing glands.

The system is DC isolated.

Specifications

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|------------------------------|---|
| Frequency Range | 1.8-30 MHz (with suitable Moonraker Antenna) |
| Antenna Lengths | For 2-30 MHz shortest unloaded antenna Type 22W; loaded antennas will allow shorter length types; long wire antennas should be at least 8m (25ft) for the low frequencies |
| VSWR | Better than 2:1 (typical) |
| Input Impedance | 50Ω |
| Power Capability | 10-150 watts PEP |
| DC Input | 13.8 v DC required (typical) |
| DC Operating Range | 10-15v DC, 0.9 Amps average |
| Tuning Time (random) | Less than 4 seconds (typical) |
| Retune Time | Less than 15 milliseconds (typical) |
| Operating Temperature | -30°C to +60°C |
| Size | 406 x 292 x 83 mm (16 x 11.5 x 3.25 in) |
| Packed Weight | 4 kg (8.8 lbs) |

Specifications subject to change – Issued 07/13



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