

Antenna Tuning Unit FK859M1 for shipboard use



Brief description

The Antenna Tuning Unit FK859M1 is rated for transmitter powers up to 1.15 kW and provides full matching of antennas over an extremely wide impedance range in the frequency range of 1.5 to 30 MHz. The Antenna Tuning Unit FK859M1 is mainly used for matching linear radiators (rod and wire antennas); thanks to the universal design of the matching network, matching of some loop and notch antennas is also possible.

Since the ATU can be operated without external control signals, it can easily be integrated into existing systems without any modification to the system.

- Suitable for transmitter powers up to 1.15 kW
- Fully automatic operation
- Short tuning time
- No control signals required
- Silent tuning

Specifications

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| Frequency range | 1.5 to 30 MHz |
| Nominal impedance | 50 Ω |
| VSWR | ≤ 1.5 , typ. ≤ 1.1 |
| Max. input power | 1.15 kW CW and PEP |
| Tuning time without retuning | 70 to 500 ms |
| Initial tuning | typ. ≤ 15 s |
| Silent tuning (with HF850 or process controller) | ≤ 60 ms, typ. 56 ms |
| Power supply | 21 to 32 V DC (6 A max., 2.5 A at 28 V average) |
| Connector | N female |
| Control connector | 26-contact male round connector |
| Operating temperature | - 30 to + 55 $^{\circ}$ C |
| Dimensions (W x H x D) | 0.51 m x 0.74 m x 0.51 m |
| Weight | 59 kg |

Recommended extras

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|----------------------------|-----------|
| Junction Unit | GX 007 |
| Control cable (max. 80 m) | FK 859 K1 |
| Control cable (max. 200 m) | HX 002 K1 |