TC connect

Aurora F850 Base Station - Technical Data

TYPE OF STATION		Aurora F852	Aurora F854	Aurora F855
GENERAL				
Operating mode		Simplex or Duplex		
Frequency range		68 - 88 MHz	146 - 174 MHz	378-450 MHz
				430-470 MHz
Number of channels		100		
Selective call		CTCSS Repeater		
Channel spacing		25/20 kHz (12.5 kHz as option.), optional 12.5/20/25 kHz in one radio		
Frequency stability (Carrier)		$\pm$ 1.35 kHz	$\pm$ 2 kHz	$\pm$ 2 kHz
Antenna impedance		50 Ohm N connector for case and TNC connector for transceiver		
Supply voltage		10.8 - 15.6 V		
Voltage to interface		13.2 V max. 1 A		
Supply current				
Transmitting		Approximate 6 A at 13.2 V and 25 W		
Receiving		Approximate 0.4 A at 13.2 V		
Weight		Transceiver: less than 1.5 kg, Complete with cabinet less than 10 kg.		
Dimensions transceiver (WxHxD)		Transceiver: approximate 175 x 154 x 40 mm, Case: 439 x 132 x 177 mm, equipped with brackets for 19" rack mount, 3HE		
Operating temperature range		-25°C to +55°C		
Storage temperature range		-30°C to +70°C		
Standards		Meets or exceeds EN 300 086-2, EN 300 113-2, EN 300 219-2, EN 301 489-5, EN 60950		
TRANSMITTER				
Output power		1-25 W	1-25 W	378-400 MHz 1-20 W
				400-470 MHz 1-25 W
Line input		Level -10 dBm for 600 ohm		
Modulation		FM/PM or possibility to modulate with external GMSK signal.		
Adjacent channel power		Better than -70 dBc for 25 kHz channel separation		
Spurious radiation	30 MHz - 1 GHz	Less than -36 dBm		
	1 GHz - 4 GHz	Less than -30 dBm		
RECEIVER				
Intermediate frequencies		1st: 45 MHz, 2nd: 450 kHz		
Sensitivity		Better than -116 dBm (typically -119dBm)		
Switching bandwidth		Full band		
Line output		Level -10 dBm for 600 ohm		
Intermodulation rejection		Better than -70 dB		
Spurious and image rejection		Better than -75 dB for 25 kHz channel separation		
Spurious radiation	30 MHz - 1 GHz	Less than -57 dBm		
	1 GHz - 4 GHz	Less than -47 dBm		

TC Connect products are under continuo's development. We therefore reserve the right to change technical data or to modify the equipment without prior notice.