



VHF Radio Model 1792



Overview

The Model 1792 VHF Radio is a single-channel, fixed-frequency, low-power transmitter intended for base station operation in an air traffic environment to broadcast audio automated weather observations from the AWOS 3000. The Model 1792 VHF Radio operates over the frequency range from 117.975 MHz to 138.000 MHz, and uses DC power (negative ground only). The frequency is programmable over the specified frequency range with a channel spacing of 25 kHz. The Model 1792 comes complete with a mounting bracket, power input cable assembly, and VHF radio signal cable assembly.

An RG-58 antenna cable in the AWOS 3000 CDP rack connects the antenna output on the back of the VHF radio to the antenna connector on the back of the CDP rack.

SENSORS

SPECIFICATIONS

Parameter	Specification
Frequency Range	117.975 to 138.000 MHz
Channel Spacing	25 kHz
Duty Cycle	20%
Transmitter Pwr Output	5 to 10 W
Output Pwr Stability	1.1 W
VSWR	4:1
Carrier Stability (-40 to 55°C)	±1.000 Hz max
Incidental FM & PM from Modulation	±100 Hz max
Rise Time to 90% Rated Power	100 ms max
Audio Input	50 mV to 2 V rms
Speech Processor Dynamic Range	35 dB min
Modulation Capability	up to 95%
Audio Distortion (90% Modulation)	10% max
Audion Frequency Response	300 Hz to 2500 Hz (+1, -3 dB)
Spurious Emissions	60 dB below carrier
Hum and Noise Level	45 dB below carrier
Voice/Keying Connector	DB9 (female 9-pin D-sub connector)
Antenna Connector	RG-58
Power Supply Connector	4-pin CPC
Supply Voltage	11-15 V DC
Current Consumption	Transmit Mode - 5.0 A max Standby - 1.5 A max
Operating Temperature	-40 to +131°F (-40 to +55°C)
Storage Temperature	-67 to +149°F (-55 to + 65°C)
Humidity	up to 100% noncondensing
Enclosure	powder-coated aluminum

ORDERING INFORMATION

Part Number	Description
1792	VHF Radio with Cable & Antenna

DIMENSIONS & WEIGHTS

Product Dimensions	8.50" W x 2.75" H x 10.25" D (216 mm x 70 mm x 260 mm)
Shipping Dimensions	9" x 6" x 11" (229 mm x 152 mm x 280 mm)
Weight	3.5 lb (1.6 kg)
Shipping Weight	5 lb (2.3 kg)



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