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Technical Data

TYPE 355 RECEIVER



The CEI Type 355 Receiver is a wideband unit designed for RFI and EMI detection in the frequency range of 1 kHz to 600 kHz. The receiver covers this frequency range in a single band. Selectable IF bandwidths of 1 kHz, 6 kHz, 20 kHz, or 50 kHz have been provided to facilitate the detection of both wideband and narrowband signals. The frequency response of the audio amplifier is extended to 50 kHz to match the widest IF bandwidth for use with an impulse generator.

A calibrated metal tape is used as the tuning dial. This tape is 25 inches in length to provide good resolution over the receiver's wide 600 kHz tuning range.

This versatile receiver has been designed using solid-state devices exclusively as active elements. It, therefore, exhibits high reliability and low power consumption.

SPECIFICATIONS

Frequency Range	1 kHz to 600 kHz (lower band limit 500 Hz)
Types of Reception	AM, SSB, CW, MCW, and FSK
Noise Figure	Less than 5 dB
Sensitivity (50-ohm input impedance and 1-kHz IF bandwidth)	CW and FSK, 1 kHz to 10 kHz: 5 microvolts for 20 dB (s + n)/n CW and FSK, 10 kHz to 600 kHz: 0.5 microvolt for 20 dB (s + n)/n MCW and AM, 50 kHz to 600 kHz: 1 microvolt for 10 dB (s + n)/n
Input Impedance	50 ohms or 1000 ohms, selectable by rear-panel switch
Input Attenuator	0 dB, -20 dB, -40 dB, or -60 dB selectable by front-panel switch
Maximum Input Level	1 volt, rms, with input attenuator in -60 dB position
IF Bandwidths	1 kHz, 6 kHz, 20 kHz, or 50 kHz, selectable by front-panel switch
Image Rejection	70 dB, minimum

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SPECIFICATIONS - Cont'd

IF Rejection	60 dB, minimum
Dymanic Range	AGC or Manual: 55 dB, minimum
BFO	Five separate BFO's: One variable ± 7 kHz by front-panel control and four crystal controlled to provide zero beat with IF frequency, a 5.5-kHz beat note, and upper or lower sideband reception of SSB signals
Incidental FM	Less than 10 Hz peak deviation
Outputs	Six: front-panel phone jack (2000 ohms, nominal); rear-apron audio, 6 milliwatts (600 ohms, balanced); local oscillator output; IF output, AM detector output; and signal monitor output
Audio Bandwidths	Normal (100 Hz to 50 kHz) or narrow (825 Hz to 1175 Hz), selectable by front-panel switch
Input Power	115/230 Vac, 50-400 Hz, at approximately 5 watts
Size	19 inches wide, 3.5 inches high, and 19.5 inches deep
Weight	20 lbs., approximately

PRICE: \$3,000.00

FOB Rockville, Maryland. Taxes extra where applicable. Price and specifications subject to change without notice.

NOTES: The Type 355-1 Receiver, which has been modified to provide X-Y outputs to drive an X-Y plotter, is also available.

PRICE: \$3,200.00

The Type 355-2 Receiver, which has been modified to include internal batteries and a battery charger, is also available.

PRICE: \$3,700.00