



SPECIFICATIONS MODEL 600 "Blue Box"

Cat. No. 301020

Model 600 "Blue Box" EIA RS-232 Interface Analyzer

Red LED's simultaneously display polarity, activity, and validity of key interface signals.



- 🔀 Easy testing of computer's serial data interface
- Compatible with EIA RS-232, CCITT V.24, and MIL-188C.
- 🔀 Easy determination of proper data cable design.
- Lightweight, pocket-sized and battery powered.
- Virtually indestructable aluminum case with metal hinge and latch.
- The breakout box of choice for computer room field service.

Features:

- Easily inserted in series between DTE (Data Terminal Equipment) and DCE (Data Comm Equipment)
- ★ 50 Test points to access all 25 pins of both DCE and DTE connector.
- Test synchronous or asynchronous modems, terminals, and multiplexers.
- 24 Mini-Switches provide capability to program each signal for make or break.
- Displays all modem & terminal interface signals.
- Separate EIA cable facilitates use at either modem or terminal end.
- Full-duplex and half-duplex monitoring.
- ☆ On GSA Schedule!

Description:

The Model 600 EIA RS-232 Interface Analyzer is used at the standard EIA RS-232 or CCITT V.24 data interface of modems, multiplexers, terminals, and computers. Model 600 provides access to and monitoring of all data, timing, and control signals.

The Model 600 utilizes light emitting diodes (LEDs) to display polarity, activity, and validity of all interface signals. The battery-powered LEDs are buffered to prevent loading of the data interface. Miniature rocker switches allow the user to program 'make' or 'break' for each signal at the DCE/DTE interface. Continuous positive and negative voltages are conveniently available on the test points and can simulate handshaking or data signals. An ample supply of mini-patchcords provide for cross-patching or loopback patching of signals at the front panel test point array.

A complete table of EIA/CCITT standard interface signal desciption is provided inside the unit for ready reference during testing. A covered compartment provides secure storage for mini-patchcords and an EIA ribbon cable.



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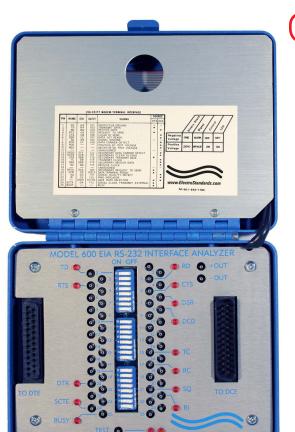
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LED Indicators:

The Model 600's high-efficiency LEDs clearly indicate the status of key signals at the EIA/CCITT data interface. For regularly monitored signals, a SPACE condition is signified by a red indication. A MARK condition is signified by an OFF indication. An improper signal level (between +3 volts and -3 volts) or an open circuit is also displayed as an OFF indication. Active clock signals result in an alternating on and off indication that is directly related to the clock duty cycle.

EIA-CCITT MODEM-TERMINAL INTERFACE							
PIN	NAME	EIA	CCITT	SIGNAL	SOU		RED INDICTOR DISPLAY
PIN 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	PG TD RTS CTS DSR SG DCD POS STS STD SRD RC SRTS DTR SRTS DTR SC S	AA BAB CA CB CC AB CF SCB SBA DB SBB DD SCA CD CC CE	101 103 104 105 106 107 109 122 121 118 114 119 115 120 108.2 110 125	SIGNAL PROTECTIVE GROUND TRANSMIT DATA RECEIVE DATA REQUEST TO SEND CLEAR TO SEND DATA SET READY SIGNAL GROUND DATA CARRIER DETECT POSITIVE DC TEST VOLTAGE NEGATIVE DC TEST VOLTAGE UNASSIGNED SECONDARY DATA CARRIER DETECT SECONDARY CLEAR TO SEND SECONDARY TRANSMIT DATA TRANSMIT CLOCK SECONDARY RECEIVE DATA RECEIVE CLOCK UNASSIGNED SECONDARY RECEIVE DATA RECEIVE CLOCK UNASSIGNED SECONDARY RECEIVE DATA RECEIVE CLOCK SECONDARY REQUEST TO SEND DATA TERMINAL READY SIGNAL QUALITY DETECT RING INDICATOR DATA RATE SELECTOR SERIAL CLOCK TRANSMIT, EXTERNAL		RCE DCE	NEGATIVE ONE MARK OFF OFF VOLTAGE ZERO SPACE ON ON

For signals monitored via the TEST pin, a pair of LEDs is used to indicate valid EIA/CCITT voltage levels. A SPACE condition is signified by a red indication from the POS LED. A MARK condition is signified by a red indication from the NEG LED. An improper signal level (between +3 volts and -3 volts) or an open circuit is indicated by a simultaneous OFF condition from both the POS and the NEG LEDs.



Specifications:

Input Signal: +/- 25 volts per EIA RS-232

More positive than +2.5 volt for ON indication.

LED Circuit Input Impedance: Exceeds 30K ohms

Operating Temperature: 0°C to 50°C Storage Temperature: -20°C to 90°C Humidity: 10% to 90% without condensation

Size: 4.0 x 5.25 x 1.75 inches (10.16 x 13.33 x 4.45 cm)

Weight: 15 ounces (426 grams)

Power: Four 1.5V, size AA batteries

Display: 15 high-efficiency red indicators

Test Points: 50 test points provide access to all 25 pins on both the DCE

and DTE connector, 1 to access test LEDs and 2 to provide con-

tinuous positive and negative test voltages.

Switches: 24 mini-rocker switches for ON/OFF control of signals passing

through between DCE & DTE connectors.

I/O Connectors: To DCE, a 25-pin EIA socket. To DTE, a 25-pin EIA plug.

Cables & Patchcords: One 10" M/F EIA ribbon cable for connection to

DCE or DTE. Three single (1-to-1) patchcords and

DCE or DTE. Three single (1-to-1) patchcords and one triple (3-to-1) patchcord for use with test points.

EIA/CCITT Modem-Terminal Interface Label: Attached to upper panel. Describes relationship between EIA, CCITT, Signal Nomenclature, and Signal Source.

Packaging: Aluminum case, metal hinge and clasp. Storage compartment for cable and mini-patchcords.