Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

GSA Schedule Contract GS-35F-0286V

SPECIFICATIONS
MODEL 700
Cat. No. 301030

Model 700 EIA RS-232 Interface Analyzer

Tri-State Led's Display Red, Green, Orange & Off To Indicate Signal Status

- **RS232 Breakout Box on GSA Schedule**
- **National Stock Number (NSN): 6625-01-585-9259**

- Easy to use; plug and play!
- Easy testing of computer's serial data interface.
- Easy determination of proper data cable design.
- Economically priced.
- Available from stock.
- Indispensable.

Features:

- **Tri-State (3-color) LED Display for quick signal analysis.**
- Displays all modem & terminal interface signals.
- Compatible with EIA RS-232, CCITT V.24, and MIL-188C.
- Separate EIA cable facilitates use at either modem or terminal end.
- Test points to access all 25 pins of both DCE and DTE connector.
- Can also be utilized to determine custom cable designs.
- Completely portable: lightweight, pocket-sized, battery powered.
- Rugged aluminum case and metal hinge that will NOT break!
- Tests synchronous or asynchronous modems, terminals, multiplexers.
- 24 mini-switches, 4 mini-patchcords.
- Comprehensive User's Manual.
- **On GSA Schedule!**

Description:

The Model 700 EIA RS-232 Interface Analyzer is a diagnostic tool designed for use at the standard EIA RS-232 or CCITT V.24 data interface of modems, multiplexers, terminals, and computers. It is simply inserted in series between the DTE (Data Terminal Equipment) and the DCE (Data Communications Equipment) to provide access to and monitoring of all data, timing, and control signals.

The unit is of optimum design. It utilizes state-of-the-art tri-state light emitting diodes to clearly display polarity, activity, and validity of all interface signals. Miniature rocker switches allow the user to program a 'make' or 'break' for each signal at the DCE/DTE interface. Mini-patchcords are provided for cross-patching or loopback patching of signals at the front panel test point array.

A complete table of EIA/CCITT standard interface signal descriptions is provided inside the unit for ready reference during testing. A covered compartment provides secure storage for mini-patchcords and an EIA ribbon cable. The Model 700 is battery powered for complete portability, pocket sized for convenience, and packaged in a sturdy aluminum case with metal hinge for durability in field use.

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EIA RS-232 Interface Analyzer

Tri-State Indicators:

The Model 700 utilizes state-of-the-art tri-state light emitting diodes to indicate the status of key signals at the EIA/CCITT data interface. The use of tri-state indicators allows the maximum efficient monitoring of bipolar interface signals. They present the user with a maximum of signal status information.

EIA-CCITT MODEM-TERMINAL INTERFACE

PIN	NAME	EIA	CCITT	SIGNAL	SOURCE DTE	SOURCE DCE
1	PG	AA	101	PROTECTIVE GROUND	-	-
2	TD	BA	103	TRANSMIT DATA	■	
3	RD	BB	104	RECEIVE DATA		■
4	RTS	CA	105	REQUEST TO SEND	■	
5	CTS	CB	106	CLEAR TO SEND		■
6	DSR	CC	107	DATA SET READY		■
7	SG	AB	102	SIGNAL GROUND	-	-
8	DCD	CF	109	DATA CARRIER DETECT		■
9	POS	---	---	POSITIVE DC TEST VOLTAGE		■
10	NEG	---	---	NEGATIVE DC TEST VOLTAGE		■
11	--- ---	---	---	UNASSIGNED	-	-
12	SDCD	SCF	122	SECONDARY DATA CARRIER DETECT		■
13	SCTS	SCB	121	SECONDARY CLEAR TO SEND		■
14	STD	SBA	118	SECONDARY TRANSMIT DATA	■	
15	TC	DB	114	TRANSMIT CLOCK		■
16	SRD	SBB	119	SECONDARY RECEIVE DATA		■
17	RC	DD	115	RECEIVE CLOCK		■
18	--- ---	---	---	UNASSIGNED	-	-
19	SRTS	SCA	120	SECONDARY REQUEST TO SEND	■	
20	DTR	CD	108.2	DATA TERMINAL READY	■	
21	SQ	CG	110	SIGNAL QUALITY DETECT		■
22	RI	CE	125	RING INDICATOR		■
23	--- ---	CH/CI	111/112	DATA RATE SELECTOR	■/	/■
24	SCTE	DA	113	SERIAL CLOCK TRANSMIT, EXTERNAL	■	
25	BUSY	---	---	BUSY	■	

TRI-STATE LED DISPLAY

BINARY STATE	SIGNAL	CONTROL	VOLTAGE
RED	ONE	MARK	OFF	NEG
GREEN	ZERO	SPACE	ON	POS
OFF	IMPROPER SIGNAL (BETWEEN +3V & -3V) OR OPEN CIRCUIT			

Specifications:

Input Signal: ±25V per EIA RS-232
More pos than +2.5V = Green indication
More neg than –2.5V = Red indication

LED Circuit Input Impedance: Exceeds 30Kohms

Operating Temperature: 0°C to 50°C

Storage Temperature: -40°C to 90°C

Humidity: 10% to 90% without condensation

Size: 4.0 x 5.25 x 1.75 inches, (10.2 x 13.3 x 4.5 cm)

Weight: 15 ounces (426 grams)

Power: Four 1.5V, size AA batteries

Display: **14 tri-state LED indicators**

Test Points: 50 test points access all 25 pins on both DTE & DCE connector; One spare LED access test point; One set of two voltage test points (+)(-).

Switches: 24 Mini-rocker switches for on-off control of all signals between DTE and DCE.

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

Cables & Patchcords: One 10-inch EIA cable.
Three single (1-to-1) mini-patchcords.
One triple (3-to-1) mini-patchcord.

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

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

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