



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, NATO Stock Number (NSN): 6625-01-585-9259
- Ideal for Commercial-Off-The-Shelf (COTS) purchase applications.



- 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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TRI-STATE INDICATORS:

The Model 700 utilizes stateof-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.

PIN NAME EIA CCITT SIGNAL DTE DCE 1 PG AA 101 PROTECTIVE GROUND -	EIA-CCITT MODEM-TERMINAL INTERFACE TRI-STATE LED DISPLAY												
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 ASET READY - - 7 SG AB 102 SIGNAL GROUND - - - 9 POS NEGATIVE DC TEST VOLTAGE - - - 10 NEG NASSIGNED - - - 12 SDCD SCF 122 SECONDARY DATA CARRIER DETECT - - - - 13 SCTS SCB 114 TRANSMIT DATA - - - - - 14 STD SBA 118 SECONDARY REQUEST TO SEND - -	PIN	NAME	EIA	CCITT	SIGNAL	SOU	RCE DCE		MAR	a stel a	MAL /	NTROL 1	ALE
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 - 9 POS POSITIVE DC TEST VOLTAGE - 10 NEG NEGATIVE DC TEST VOLTAGE - 11 VOSITIVE DC TEST VOLTAGE - - 12 SDCD SCF 122 SECONDARY DATA CARRIER DETECT - - 13 SCTS SCB 114 TRANSMIT CLOCK - - - 14 STD SBB 119 SECONDARY RECUVE DATA - - - 17 RC DB 114 TRANSMIT CLOCK - - - - 18 UNASSIGNED - - - - - <td>1</td> <td>PG</td> <td>AA</td> <td>101</td> <td>PROTECTIVE GROUND</td> <td>-</td> <td>-</td> <td></td> <td>18110</td> <td>SY S^w</td> <td>' / E</td> <td>\$*/_\$\$Y</td> <td>/</td>	1	PG	AA	101	PROTECTIVE GROUND	-	-		18110	SY S ^w	' / E	\$*/_\$\$Y	/
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 NEGATIVE DC TEST VOLTAGE 12 SDCD SCF 122 SECONDARY DATA CARRIER DETECT 13 SCTS SCB 121 SECONDARY TRANSMIT DATA	2	TD	BA	103	TRANSMIT DATA				Í	Í	Í	\frown	
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 NEGATICE DC TEST VOLTAGE - 11 NASSIGNED - - 12 SDCD SCF 122 SECONDARY DATA CARRIER DETECT - - 13 SCTS SCB 114 TRANSMIT CLOCK - - 14 STD SBA 118 SECONDARY REQUEST TO SEND - - 15 TC DB 114 TRANSMIT CLOCK - - - 18 STC SCA 120 SECONDARY REQUEST TO SEND - - - 17 RC DD 115 RECEIVE CLOCK - - - - 19 SRTS	3	RD	BB	104	RECEIVE DATA					MADI	0.55	NEC	
5 CTS CB 106 CLEAR TO SEND 6 DSR CC 107 DATA SET READY 7 SG AB 102 SIGNAL GROUND - 9 POS	4	RTS	CA	105	REQUEST TO SEND			RED	ONE	MARK	UFF	INEG	
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 -	5	CTS	CB	106	CLEAR TO SEND								
7 SG AB 102 SIGNAL GROUND -	6	DSR	CC	107	DATA SET READY								
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13 SCTS SCB 121 SECONDARY CLEAR TO SEND 14 STD SBA 118 SECONDARY TRANSMIT DATA 15 TC DB 114 TRANSMIT CLOCK Image: Constant of the consta	12	SDCD	SCF	122	SECONDARY DATA CARRIER DETECT								
14 STD SBA 118 SECONDARY TRANSMIT DATA 15 TC DB 114 TRANSMIT CLOCK Image: Compary Receive DATA 16 SRD SBB 119 SECONDARY RECEIVE DATA Image: Compary Receive DATA 17 RC DD 115 RECEIVE CLOCK Image: Compary Receive DATA 18	13	SCTS	SCB	121	SECONDARY CLEAR TO SEND								
15 TC DB 114 TRANSMIT CLOCK 16 SRD SBB 119 SECONDARY RECEIVE DATA Image: Control of the con	14	STD	SBA	118	SECONDARY TRANSMIT DATA								
16 SRD SBB 119 SECONDARY RECEIVE DATA Image: Constraint of the second s	15	TC	DB	114	TRANSMIT CLOCK								
17 RC DD 115 RECEIVE CLOCK Image: Clock of the clock	16	SRD	SBB	119	SECONDARY RECEIVE DATA								
18	17	RC	DD	115	RECEIVE CLOCK								
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	18				UNASSIGNED	-	-						
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	19	SRTS	SCA	120	SECONDARY REQUEST TO SEND								
21 SQ CG 110 SIGNAL QUALITY DETECT ■ 22 RI CE 125 RIMG INDICATOR ■ 23 CH/CI 111/112 DATA RATE SELECTOR ■	20	DTR	CD	108.2	DATA TERMINAL READY								
22 RI CE 125 RING INDICATOR 23 CH/CI 111/112 DATA RATE SELECTOR	21	SQ	CG	110	SIGNAL QUALITY DETECT								
23 CH/CI 111/112 DATA RATE SELECTOR	22	RI	CE	125	RING INDICATOR								
	23		CH/CI	111/112	DATA RATE SELECTOR	■/	/						
24 SUIE DA 113 SERIAL LLOUK I RANSMII, EXTERNAL ■	24	SCTE	DA	113	SERIAL CLOCK TRANSMIT, EXTERNAL								
25 BUSY BUSY	25	BUSY			BUSY								

SPECIFICATIONS

MODEL 700 (Cat. No. 301030)

EIA RS-232 Interface Analyzer



SPECIFICATIONS:

Schedule

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Input Signal: +/-25V per EIA RS-232 More pos than +2.5V = Green indication More neg than -2.5V = Red indicationLED 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. TO DCE, a 25-pin EIA socket. I/O Connectors: 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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