

Display board

Board **E951** is designed for display of numbers and characters according to program stored in control board. It also serves for assignment of commands and information related to displayed data. The boards use one address in the system for input and output operation operations.

Function description



Display set is formed from four pairs of 7-segment display elements (Z) 1-8. Commands and information are assigned by a 12-position rotary switch (RS) and three pushbuttons (PB) 1-3 without locking. When pressed, PB3 performs also test of lighting of all display set segments.

The board contains (beside circuit for connection into BE bus and circuit for control of display set itself) also ROM and RAM memories. ROM contains set of displayed numbers and characters, which is loaded into PROM memory before their fitting into the board when manufactured. Control board stores in RAM information, which number or character should be currently displayed and on which display element. Data on display set are kept until loss of feeding voltage +5V or change performed by control board.

Positions of rotary switch are read out similarly to binary inputs 1-12 of board E650 and pushbuttons are read out like inputs 13-15 of board E650. The pushbuttons could be pressed in random combination.

Technical parameters

Bus

Bus type:	BE
Feeding voltage:	+5 VDC
Feeding voltage + 5V tolerance:	± 5%
Max. feeding current from + 5V:	650 mA
Typical feeding current from + 5V:	510 mA
Max. feeding power consumption:	3.5 W

Other parameters

Max. power consumption:	3.5 W
Operational temperature range:	0°C..60°C
Dimension:	6HE 8TE
Weight:	0.3 kg

Board interface

Bus connector

Connection, used signals and their levels comply with requirements of BE bus.

Connector of related equipment

Not used in the board

Set of numbers and characters

Selection of 7-segment display element is determined by combination of data signals D0, D1, D2.

D2	D1	D0	Display element
0	0	0	1
0	0	1	2
0	1	0	3
0	1	1	4
1	0	0	5
1	0	1	6
1	1	0	7
1	1	1	8

Displayed symbol is determined by combination of data signals D3, D4, D5, D6, and D7.

D3	D7	D6	D5	D4	Symbol
0	0	0	0	0	0
0	0	0	0	1	1
0	0	0	1	0	2
0	0	0	1	1	3
0	0	1	0	0	4
0	0	1	0	1	5
0	0	1	1	0	6
0	0	1	1	1	7
0	1	0	0	0	8
0	1	0	0	1	9
0	1	0	1	0	A
0	1	0	1	1	b
0	1	1	0	0	c
0	1	1	0	1	d
0	1	1	1	0	E
0	1	1	1	1	F
1	0	0	0	0	G
1	0	0	0	1	H
1	0	0	1	0	h
1	0	0	1	1	i
1	0	1	0	0	J
1	0	1	0	1	L
1	0	1	1	0	n
1	0	1	1	1	o
1	1	0	0	0	P
1	1	0	0	1	r
1	1	0	1	0	t
1	1	0	1	1	U
1	1	1	0	0	u
1	1	1	0	1	-
1	1	1	1	0	.
1	1	1	1	1	blank