



LARGE SIZE ALPHANUMERIC DISPLAYS DA1 TYPE



APPLICATIONS

Alphanumeric displays are destined to display messages inside buildings and can be applied:

- in selling points to display publicity, price lists, information for customers,
- in banks to display information about: exchange rate, interest rate, publicity, information for customers,
- in concert halls, museums as information about repertoire, informative or welcoming boards for visitors,
- as informative boards in different offices (e.g. Marketing Departments),
- in railway and bus stations or airports as informative boards for travellers,
- in office building halls, as publicity or informative boards destined to display publicity or parameters, e.g. about the weather,
- in office buildings of production plants to display information about the production state (e.g. number of produced pieces, temperature, pressure, etc.),
- in the judiciary as informative boards.

Situated in a visible place, information helps in the efficient work in industrial communication, logistics, automation, selling and control technology.

These alphanumeric displays are offered in three colours of the read-out field: red, green or yellow. They co-operate with external measuring devices equipped with RS-485 interface with MODBUS RTU protocol. It is possible to visualise the technological process and transmit messages from devices.

The basic version of these displays signs includes two lines of 20 characters, or three lines of 24 characters in the text version or a graphical field of 16 \times 120 points or 32 \times 144 points.

Custom-made display boards can be specially designed for other applications.

In such a case, different number heights and character resolutions in one board can be worked out after agreement with customers.

TECHNICAL DATA

Power consumption:	
DA1-01	\leq 60 VA
DA1-02	\leq 90 VA
DA1-03	\leq 60 VA
DA1-04	\leq 125 VA
Read-out field:	
DA1-01	Text, 2 lin
DA1-02	Text. 3 lin

Text, 2 lines of 20 characters each Text, 3 lines of 24 characters each Graphical, 16×120 points Graphical, 32×144 points

RS-485 and/or RS232

preservation of configuration

depending on execution

RS-485

data

IP 40

(see fig.2)

MODBUS RTU

Communication:

DA1-03

DA1-04

- serial interface (DA1 \rightarrow PC)
- serial interface
- (DA1 ightarrow measuring device)
- transmission protocol

Reaction against decays and supply recoveries

Protection grade ensured by the housing Dimensions

imensions

Reference conditions and rated operating conditions:

 - working temperature
 0...23...55°C

 - storage temperature
 - 20... 75°C

 - relative humidity
 25... 95%

 - voltage supply
 100...230...240 V a.c.

 - frequency
 45...50...60 Hz

 - external magnetic field
 0...400 A/m

 - working position
 any

Standards fulfilled by DA1 display-systems:

Electromagnetic compatibility:

- immunity		EN 61000-6-2
- emission		EN 61000-6-4

- resistance against supply decays EN 61000-6-2

Safety requirements:

acc.	to	ΕN	61000-	1:20)02(U) s	tanc	lard	

- Insu	lation	ensured	by the	housing	basic

 insulation between circuits 	basic
- installation category	П

 installation category 	11
- pollution level	2

- maximal phase-to-earth

working voltage:

- for supply 300 V

- for interface circuit	50 V



OVERALL AND MOUNTING DIMENSIONS

The housing of the DA1 alphanumerical displays is made of aluminium.

The safety degree ensured by the housing is defined as IP40. The view of the board is shown on the fig.1.

Housing dimensions, depending on the execution are presented on the fig.2.

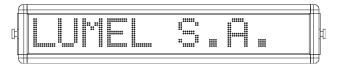
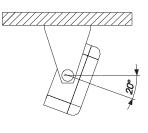
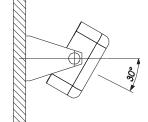


Fig. 1. DA1 board







Suspension of the board

Fixing of the board on the wall

EXECUTION CODES AND ORDERING

ALPHANUMERICAL DISPLAY	DA1	хх	Х	х
Board type:				
with text 2×20 characters (character height h = 60	0 mm)	01		
with text 3×24 characters (character height h = 60	0 mm)	02		
graphical 16 × 120 points	· · · · · · · · · · · · · · · · · · ·	03		
graphical 32×144 points		04		
on order		. xx		
Colour:				
red			R	
green			-	
yellow				
Interface for programming:				J
RS232.				0
RS485				
RS232+RS485				2
Ethernet				3
Profibus DP				4
CAN				5

ORDERING	EXAMPLE
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The code DA1 01 R 2 means:

- DA1 alphanumerical display of DA1 type,
- 01 execution with text 2 x 20 characters,
- R red colour displays,
- 2 with RS232 and RS-485 interfaces.

Note: It is possible to order a board with built-in a light sensor

Types of board	Read-out field	Board overall dimensions [mm]			assembl	sions of y holders m]
		a b h			С	L
01	2 lines of 20 characters	971	93.5	218	190.5	907
02	3 lines of 24 characters	1151	93.5	308	190.5	1108
03	graphical 16×120 points	971	93.5	218	190.5	907
04	graphical 32×144 points	1151	93.5	308	190.5	1108

Fig. 2 Board dimensions and spacing of holes and assembly holders.

