

NUMERICAL DISPLAY PANEL DL11, DL12, DL13 types



APPLICATION

Large-size numerical displays of DL type are destined to display measured values or set values through the communication interface. Taking in consideration the application of 7-segment LED display they are destined to be installed inside buildings.

The 100 mm digit height ensures a good readout from the distance of 40 m.

They find application in office accommodations, production workshops, in production management rooms as information about production parameters, state of machines or devices. The displayed value is transmitted from external devices working in MODBUS standard. The display is working as the network "master". The basic display version includes three digits and the unit, in two rows or three rows. It is possible to make the display in the configuration required by the customer.

DIGITAL DATA

Readout field:

Digit height: 100 mm

DL11 one row of 3 digits + unit field
DL12 two rows of 3 digits + unit field
DL13 three rows of 3 digits + unit field

Colour of the readout field:

red, green and yellow - possibility of colour combination for DL12 and DL13 $\,$

Power consumption:

DL11 < 12 VA DL12 < 24 VA DL13 < 36 VA

Communication:

interface RS-485transmission protocol MODBUS

Reaction against decay and supply recovery:

- preservation of configuration data in the display

Protection grade ensured by

the housing IP 40

Dimensions:

Environmental and rated operating conditions:

Standards fulfilled by the panel: Electromagnetic compatibility:

- noise immunity acc. to EN 61000-6-2 - noise emissions acc. to EN 61000-6-4 - resistance to supply decay acc. to EN 61000-6-2

Safety requirements:

- pollution degree

acc. IEC 61010-1+A1 standard:

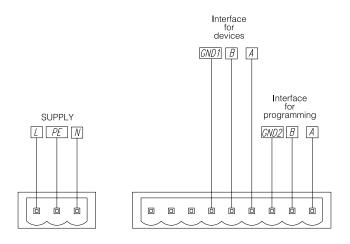
- isolation ensured by the housing basic basic isolation between circuits basic installation category III

- maximal working voltage in relation

to earth for supply circuits 300 V and 50 V for others circuits

ELECTRICAL CONNECTIONS

Wires of 1 m long for the connection of the supply and display control signals, are led out from the lateral housing side.



Markings of connectors for DL11, DL12, DL13:

- supply 3 × 0.75 mm² [L, N, PE],
- interface 3 × 0.34 mm² [A, B, GND].

Fig. 1



4. DESIGN DESCRIPTION AND INSTALLATION

The display housing is made of profiles and aluminium sheets, painted in black colour. The frontal surface is made of polycarbonate as an anti-reflexive glass. The protection degree ensured by the housing is defined as IP40.

The view and overall dimensions of DL11, DL12 and DL13 displays are presented on fig. 1, 2 and 3.

The design enables to fix the display on a wall.

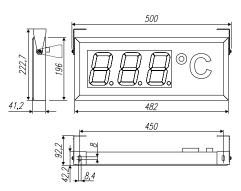


Fig. 2. overall dimensions of the DL11 display.

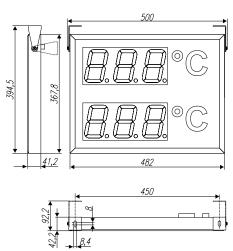


Fig. 3. overall dimensions of the DL12 display.

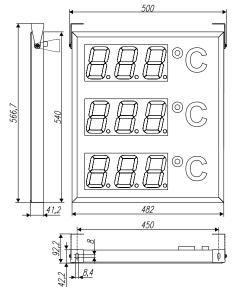


Fig. 4. overall dimensions of the DL13 display.

5. ORDER CODES

			Table 1		
DIGITAL DISPLAY	DL11 -	х	хх		
Colour of display field:					
Red		R			
Yellow		Y			
Green		G			
Kind of versions:					
Standard			. 00		
custom-made*			. XX		

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DIGITAL DISPLAY	DL12 -	х	Х	ХX
Colour of the I display field:				
Red		R		
Yellow		Y		
Green		G		
Colour of the II display field:				
Red			R	
Yellow			Y	
Green			G	
Kind of versions:				
Standard				00
custom-made*				. XX

Table 3 DIGITAL DISPLAY DL13 -Χ Х x x Colour of the I display field: Red Yellow Colour of the II display field: Red..... Yellow Colour of the III display field: Red..... Green..... Kind of versions: custom-made* XX

Caution: when ordering, one must give communication parameters of the measuring devices

Coding Example

The Code: DL13 - R Y G 00 means:

DL13 - Digital display consisting of 3 rows

R - digits in the upper are red

Y - digits in the middle row are yellow

 ${\bf G}\ \ \,$ - digits in the lower row are green

00 - in standard version

Other versions of displays are possible acc. customer's needs after agreeing with the manufacturer.

^{*} The code number is established by the manufacturer