

LARGE SIZE DIGITAL CLOCKS DLZ TYPE



APPLICATIONS

Large size digital clocks of DLZ type are destined to display the current time inside accommodations. Moreover, they enable the display of the current date, and also the temperature and humidity, in connection with the temperature and humidity P18 transducer. Equipment of the DLZ clock with the communication interface enables its freely configuration, and thanks to a second RS-485 interface built-in, the co-operation with a temperature and humidity transducer is possible. Values read out from the transducer can be read out by the user through the interface destined for the communication with the user. DLZ digital clocks possess a programmed change of the display brightness, what allows energy saving when the digital clock work is not necessary or a full brightness could dazzle the users. Digital clocks of DLZ series find application everywhere when there is necessary to display the current time, date, temperature and humidity. It is possible to realize the clock according to customer's requirements.

DESIGN AND INSTALLATION

The DLZ digital clock housing is made of aluminium profiles painted in black colour. The housing ensures the IP40 protection degree, and IP20 from the terminal side. The view and clock dimensions are presented on the fig. 1

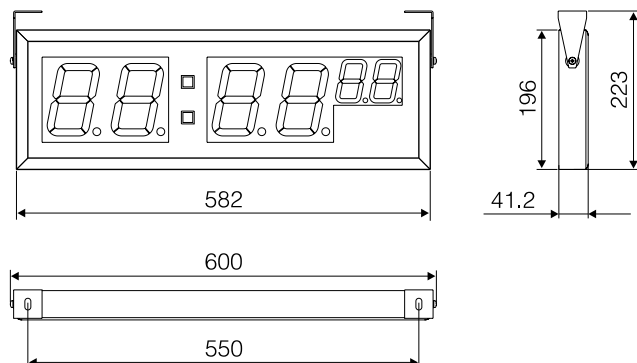


Fig. 1 View of the DLZ clock and overall dimensions

TECHNICAL DATA

Readout field:

The readout field is composed of 7-segment matrix displays

- digit height 100 mm and 57 mm
- display colour red
- programmable brightness

Power consumption: ≤ 15 VA

Communication:

- serial interface 2 × RS-485, galvanically separated
- transmission protocol MODBUS RTU
- serviced functions: 03, 16, 17
- data format: 8n1, 8n2, 8e1, 8o1
- baud rate [Kb/s] 2.4, 4.8, 9.6, 14.4, 19.2, 28.8, 38.4, 57.6, 76.8, 115.2

- maximal time till the response beginning <300 ms

Reaction against decays and supply recoveries:

preservation of configured data

Protection degree ensured by the housing:

IP40, and IP20 from the terminal side

Dimensions: see fig. 1

Reference conditions and rated operating conditions:

- working temperature 0...23...50°C
- storage temperature -20...75°C
- relative humidity 25...95%
- voltage supply 85...230...253 V a.c.
- frequency 40...50...60 Hz
- external magnetic field 0...40...400 A/m.
- working position any

Standards fulfilled by panels:

Electromagnetic compatibility:

- immunity EN 61000-6-2
- emission EN 61000-6-4
- resistance against supply decays EN 61000-6-2

Safety requirements:

acc. to EN 61010-1 standard

- insulation ensured by the housing basic
- insulation between circuits basic
- installation category III
- pollution level 2
- maximal phase-to-earth working voltage:
 - for supply 300 V
 - for interface circuit 50 V

EXECUTION CODES AND ORDERING

LARGE SIZE DIGITAL CLOCK	DLZ	XX	X
Kind of version:			
standard.....			00
custom-made*			XX
Acceptance tests:			
without a quality inspection certificate			8
with a quality inspection certificate			7
acc. to customer's agreement*			X

* The code number will be established by the manufacturer

EXAMPLE OF ORDER

Code DLZ 1 00 8 means:

DLZ – Large size digital clock

00 – standard version

8 – without an additional quality inspection certificate.