



QUICK INSTALLATION GUIDE

Alphanumeric RGB LED display especially suitable for indoor applications

DISPLAY CONFIGURATION

Indicator initializes automatically when connecting it to power supply. Once this process is finished it shows last visualized program (execution mode) or remains with display off (STOP mode) awaiting for any comand. The instrument has a default demo program in memory.

The available aplication that allows device configuration and/or to edit information that appears on display is: **Dynamic 3** (Visualization of programs editor).

This software application, **USB** drivers and **Dynamic 3**, **DMG-TCP/ASCII**, **DMG-MODBUS** and **DTPM** user manuals can be free downloaded from our website and directly installed on the PC. (<u>Minimum software requirements for running **Dynamic 3**: Windows 7 or higher).</u>

Dynamic 3 specific application software allows user to modify/create the program sequences that will be displayed. It is possible to choose character types, the mode how the messages will appear, provide effects, graphics (depending on the model), temporary variables (hour, date, countdown) and numeric (or alphanumeric) variables in real time. It is also possible to create or import graphics and new character types. Programms can be directly displayed or easily transferred to the device memory in file format to be recovered afterwards and then offline visualized.

Indicator configuration from a PC using **Dynamic 3** can be done through **RS232/RS485**, **Ethernet** or **WiFi** (options) besides of **USB** (by default).

It is also possible to configure a numeric inputs module (option) to work with 4/8 inputs as a programms execution mode or as an alarms control mode. In programms execution mode it is possible to work with three input types, independent inputs where each input corresponds to a programm to visualize, 4/8-bit binary inputs (up to 16/256 programms) and 3/7-bit binary inputs (+1 strobe bit used to enable inputs). On the other hand, as an alarms control mode, the inputs work idependently and programms are sequentially displayed within a configurable time interval.

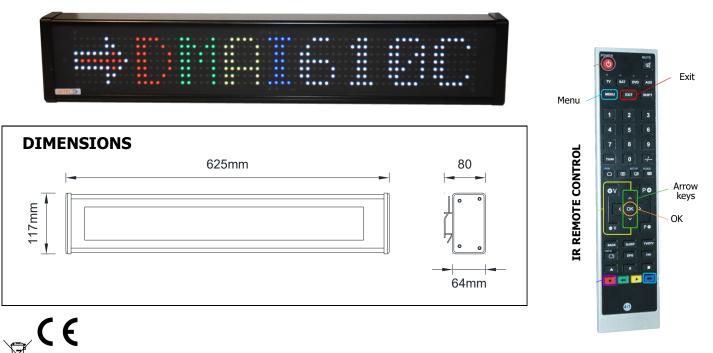
Default IP address is 192.168.1.100. The communication and rest of internal parameters can be configured through Dynamic 3.

Network communications with control of display through an external device as a PLC or PC are available through RS232, RS485, Ethernet or WiFi. The available protocols are **DTPM** (native protocol), **MODBUS RTU**, **MODBUS TCP/IP**, **TCP-ASCII** and **SNTP**.

It is also possible (as an option) to control the indicator through an infra-red (IR) remote control, by means of which user can have access to some functions such as the activation of a programm already stored in memory.

Example for the IR remote control:

To activate a pre-saved program, press **MENU** key and then with arrow keys \triangle and ∇ , select submenu **PROGRAMMES** and then press **OK** to see the list of programs stored in the internal memory. Select desired program and press again **OK** button, the selected program activates immediately. To change active programm repeat same steps. **CLOCK** menu is used to set internal clock . Press **EXIT** to quit menu at any time.



According to 2012/19/UE Directive, You cannot dispose of it at the end of its lifetime as unsorted municipal waste. You can give it back, without any cost, to the place where it was adquired to proceed to its controlled treatment and recycling.

TECHNICAL SPECIFICATIONS

SPECIAL FUNCTIONS

Automatic brightness intensity control or by software (0-100%).

Font types and custom graphics editor.

Up to 26 internal variables for real-time monitoring.

POWER SUPPLY AND FUSES

VISUALIZATION

Character height 63mm . Approx. max. reading dist. \leq 30m
Character heiight 53mm . Approx. max. reading dist. ≤25m
LED type SMD
LED diameter Ø3mm (pitch 10mm)
LED colour available RGB (7 colours)
Angle vision 120°
Maximum number of static characters 10
Character height (acc. to character type) 53 or 63mm

ENVIRONMENTAL CONDITIONS

Working temperature10°C Relative humidity (non-condensing)		
Protection degree	IP54	
MATERIALS		

MATERIALS

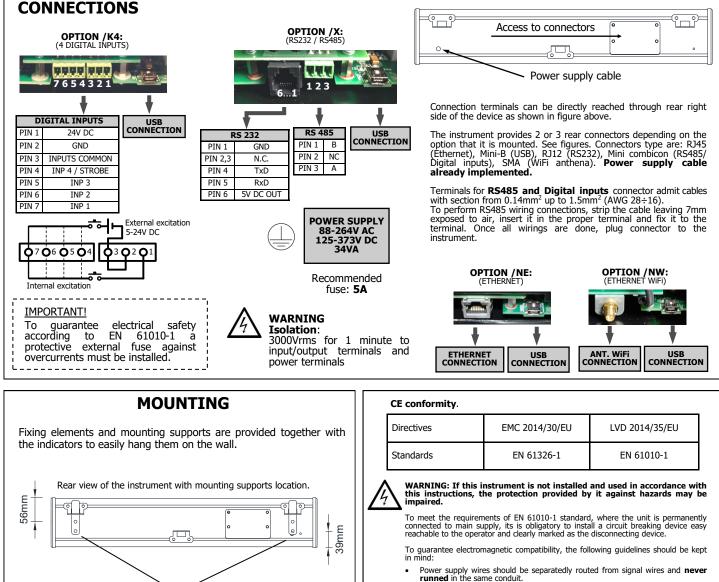
Frontal display	Smoked-grey methacrylate
Case	Black aluminium
Weight	3kg

COMUNICATION

Ports Mini USB (default) RS232/RS485, Ethernet or WiFi (option)WiFi (availability depending on radio regulation of the country) Protocols DTPM, MODBUS-RTU, TCP-ASCII, MODBUS TCP/IP,SNTP Transmission rate 1200 to 115200 Baud (configurable)

TEMPERATURE SENSOR (OPTION)

Accuracy (-15°C \div 60C°) $\ldots \ldots \ \leq \pm 1.5^{o}C$



Use shielded cable for signal wiring.



Horizontal rails with mounting supports and fixing elements