



QUICK INSTALLATION GUIDE

Alphanumeric RGB LED display
especially suitable for outdoor 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 application 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. (Minimum software requirements for running **Dynamic 3**: Windows 7 or higher).

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).

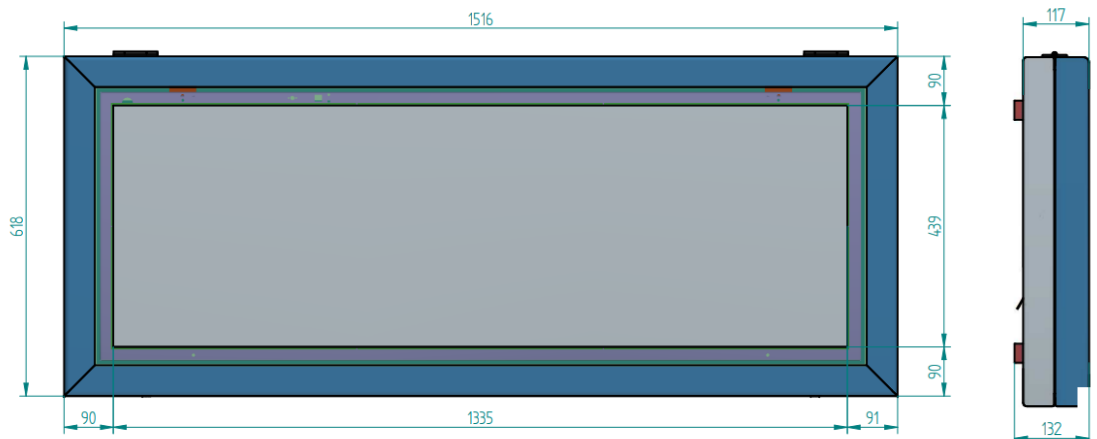
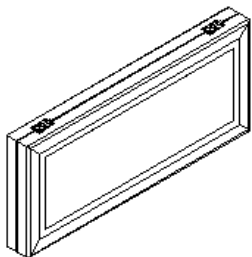
It is also possible to configure a numeric inputs module (option) to work with 4/8 inputs as a programms execution mode or as an alarms control mode. In programms execution mode it is possible to work with three input types, independent inputs where each input corresponds to a program to visualize, 4/8-bit 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.

The displays equipped with the analog input module (option) have 2 measuring channels of $\pm 10V$ or $\pm 20mA$. The input type (V or mA), the input signal range as well as the display range (within a maximum range of ± 32000 points) is fully configurable by software for each channel.

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**, **TCP-ASCII**, **MODBUS TCP/IP** and **SNTP** (time synchronization).



DIMENSIONS



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 acquired 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

DMGE3296xP: 176-264V AC 47/63 Hz- 248-373V DC
Maximum consumption 670VA / (Fus.: T 10A)

VISUALISATION

Grafic resolution.....32 x 96 pixels
Character height 75mm Approx. max. reading dist. ≤ 25m
Character height 439mm Approx. max. reading dist. ≤ 215m
LED diameter..... ø5mm
Pitch 14mm
LED type Ovale
LED colors available Amber or red
Viewing angle 70° horizontal, 30° vertical
Numerous character types.
Nombre maximum de caractères statiques par ligne.....4 to 6/1,
.....12/2 or 16/4

Character height per line:(font dependant).....75mm to 103mm/4,
.....159mm à 215mm/2 or 383mm to 439mm/1

ENVIRONMENTAL CONDITIONS

Working temperature -10°C ÷ 60°C
Relative humidity (non condensing) <90% @ 40°C
Protection degree IP54

MATERIALS

Front Smoked-grey or red methacrylate
Case.....Black aluminium
Weight32kg

COMMUNICATIONS

PortsMini USB (default)
.....RS232/RS485, Ethernet (10/100) or WiFi (option)
ProtocolsDTPM, MODBUS-RTU
..... TCP-ASCII, MODBUS TCP/IP, SNTP
Transmission speed 1200 to 115200 Baud (configurable)

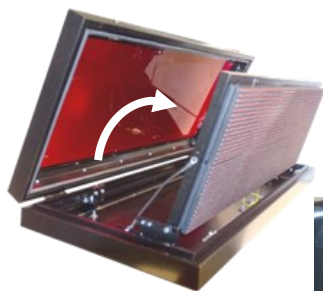
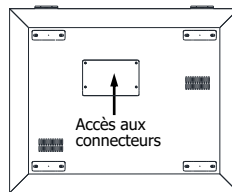
TEMPERATURE PROBE (OPTION)

Accuracy (-15°C ÷ 60°C) ≤ ±1.5°C

CONNEXIONS

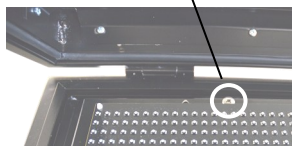
A key is provided for the display front opening system for maintenance operations. When installing, leave a minimum cable length of 40cm inside the device to allow the LED plate to tilt.

CAUTION: Disconnect the appliance from the power supply before carrying out any work



Key included with display

Location of the screws that block the LED plate.



POWER SUPPLY
176-264V AC
248-373V DC
670VA



Recommended fuse: **10A**



WARNING

Isolation:

3000Vrms for 1 minute between input/output and power supply terminals.

To access the connection terminals, remove the rear cover and proceed to make the connections accordingly. The display has 2, 3 or 4 rear connectors. Their arrangement is as shown in the figures. The types of connectors are: RJ45 (Ethernet), Mini-B (USB), RJ12 (RS232), Mini combicon (RS485 / Digital inputs), C14 (power supply) and SMA (old WiFi). The terminal strip for RS485 and digital inputs accept cables with a section between 0.14mm² and 1.5mm² (AWG 28 ÷ 16).

OPTION/NE: (ETHERNET)



ETHERNET Port

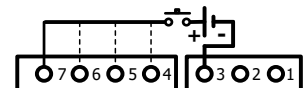
USB Port

OPTION /K4: (4 DIGITAL INPUTS)

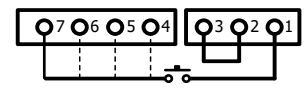


DIGITAL INPUTS	
PIN 1	24V DC
PIN 2	GND
PIN 3	COMMON INPUTS
PIN 4	INP 4 / STROBE
PIN 5	INP 3
PIN 6	INP 2
PIN 7	INP 1

USB Port



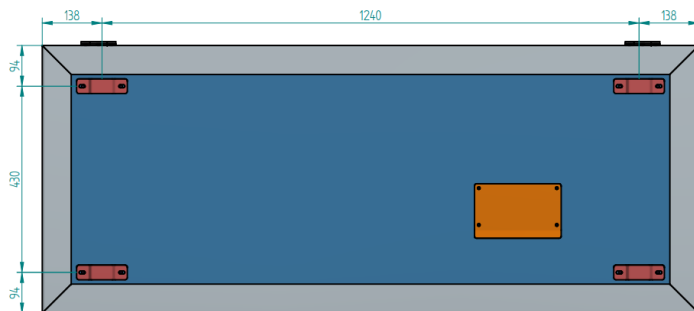
With external excitation (5-24V DC)



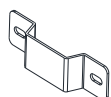
With internal excitation

MOUNTING

Fixing brackets for wall mounting and a USB cable are supplied with the idisplay.



Rear view of the indicator



Mounting support

Mounting plate



CE Conformity.

Directives	EMC 2014/30/EU	LVD 2014/35/EU
Standards	EN 61326-1	EN 61010-1



WARNING: If this instrument is not installed and used in accordance with this instructions, the protection provided by it against hazards may be impaired. To meet the requirements of EN 61010-1 standard, where the unit is permanently connected to main supply, its is obligatory to install a circuit breaking device easy reachable to the operator and clearly marked as the disconnecting device.

To guarantee electromagnetic compatibility, the following guidelines should be kept in mind:

- Power supply wires should be separately routed from signal wires and **never runned** in the same conduit.
- Use shielded cable for signal wiring.

IMPORTANT!

To guarantee electrical safety according to EN 61010-1 a protective external fuse against overcurrents must be installed.