**MMIGRS**

**Electronic Remote Display**

MMIGRS is a family of remote interfaces designed for controlling electronic devices in a remote setting. It is fitted with a graphic display that allows for complete customization of the user interface.

**Technical Specifications**

- **Power Supply**: 12Vac ± 15% external power supply
- **Maximum Power Consumption**: 1.5W

**User Interface**

- **Display**: graphical LCD, blue transmissive
- **Functioning Through**: display format 128x64 dots
- **Height Adjustable**: contrast adjustable via software

**Mounting**

- **Connections**: panel (see the drilling template in figure), using the screws supplied in the packaging
- **Protection**: IP64 ~ NEMA3R

**Connections**

- CANbus
- RS485
- Modbus

**Dimensions**

- **Drilling Template**: 110 ± 0.5
- **Height**: 69 ± 0.5
- **Width**: 16

**General Features and Warnings**

**PLastic Housing Features**

- Self-extinguishing V0 according to IEC 60695-11-10 and glowing/hot wire test at 960°C according to IEC 60695-2-12
- Ball test 125°C according to IEC 60750-1. Leakage current: ± 250mA according to IEC 60750-2-12

**Other Features**

- Operating conditions: CE-20760 / UL555, 40% RH non-condensing
- Storage conditions: -30°C, 90% RH non-condensing
- To be integrated in Class I and/or II appliances
- Index of protection: IP64 ~ NEMA4R only on the front cover
- Period of electric stress across insulating parts: long
- Suitable for using in a normal pollution environment
- Category of resistance to heat and fire: D
- Immunity against voltage surges: category I
- Software class and structure: class A

**CE Compliance**

This product is designed to comply with the following EU standards:

- Low voltage guideline: 73/23/EEC
- Electromagnetic compatibility: 89/336/EEC and with the following norms:
  - EN61000-6-1, EN61000-6-3 (immunity for residential, commercial and light industrial environments)
  - EN61000-6-2, EN61000-6-4 (immunity and emission standard for industrial environments)
  - EN60730 (Automatic electrical controls for household and similar use)

**UL Approval**

UL File: ES1004

**General Warnings**

- Every use that is not described in this manual is considered incorrect and is not authorised by the manufacturer.
- Verify that the installation and operating conditions of the device respect the ones specified in the manual, specially concerning the supply voltage and environmental conditions.
- This device contains live electrical components therefore all the service and maintenance operations must be performed by qualified personnel.
- The device can’t be used as a safety device.
- Liability for injury or damage caused by the incorrect use of the device lies solely with the user.

**Installation Warnings**

- The installation must be executed according the local standards and legislations of the country.
- Always operate on the electrical connections with the device disconnected from the mains power supply.
- Before carrying out any maintenance operations on the device, disconnect all the electrical connections.
- Don’t expose the device to continuous water sprays or to relative humidity greater than 90%. Avoid exposure to corrosive or pollutant gases, natural elements, environments where explosives or mixtures of flammable gases are present, dust, strong vibrations or shock, large and rapid fluctuations in ambient temperature that in combination with high humidity can condensate, strong magnetic and/or radio interference (e.g. transmitting antennas).
- Use appropriate data communication cables. Refer to the Fieldbus Installation Guide for the kind of cable to be used and setup recommendations.
- Reduce the path of the probe and digital inputs cables as much as possible, and avoid spiral paths enclosing power devices. Separate from inductive loads and power cables to avoid possible electromagnetic noises.
- Avoid touching or nearly touching the electronic components fitted on the board to avoid electrostatic discharges.