



MMIGRS electronic controller

MMIGRS is MCX's family remote interface. It's fitted with a graphic display that allows a complete customization of the user interface

REFRIGERATION & AIR CONDITIONING DIVISION

Programmable

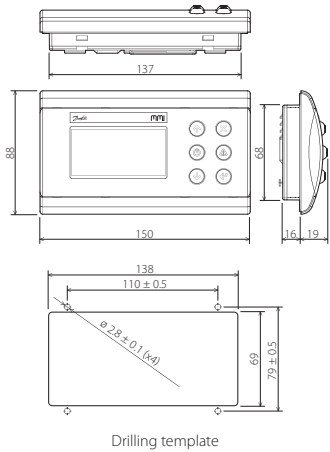
Protection degree

CAN bus

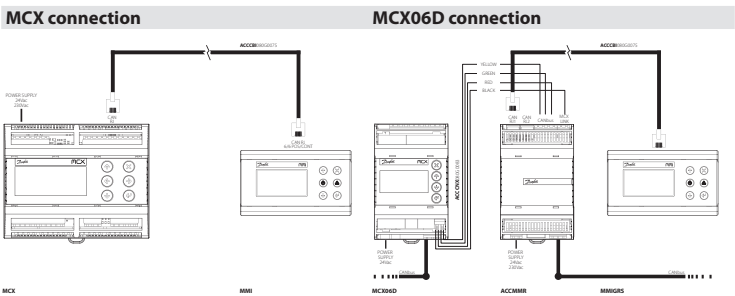
Graphic display

Multilanguage

DIMENSIONS



CONNECTION DIAGRAM



GENERAL FEATURES

The connection with every unit of the MCX range is made through the CANbus network. All the information about the user interface is loaded inside the MCX controller; that's why there is no need of programming the MMIGRS interface. MMIGRS is powered from the controller which it is connected to and automatically shows its user interface; but it can also show the interface of any other device connect to the same network

MMIGRS	
TECHNICAL SPECIFICATIONS	
Power supply	- from the MCX through the RJ11 telephone connector - 12Vdc \pm 20% external power supply - 12Vac \pm 15% external transformers - maximum power consumption: 1.5W
USER INTERFACE	
Display	- graphical LCD blue transmissive - white LED backlight with adjustable brightness via software - display format 128x64dots - active visible area 66.5x33.2mm - contrast adjustable via software
Keyboard	- 6 keys, 3 of them with respectively green, red, orange LEDs that can be individually managed via software - function key configurable by means the application software
Mounting	- panel (see the drilling template in figure), using the screws supplied in the packaging - index of protection: IP64 ~ NEMA3R
OTHERS	
CANbus	•
Modbus RS485 serial interface	
Buzzer	•
RTC clock	
Degree of protection	- IP64 ~ NEMA3R

CONNECTIONS

- CAN connector
- 6/6 way telephone RJ11 plug type

PRODUCT PART NUMBER

CODE	DESCRIPTION
080G0174	MMIGRS, REMOTE DISPLAY, PANEL, CLOSE CONTROL

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 60730-1. Leakage current: \geq 250V according to IEC 60112

OTHER FEATURES

- Operating conditions CE: -20T60 / UL: 0T55, 90% RH non-condensing
- Storage conditions: -30T80, 90% RH non-condensing
- To be integrated in Class I and/or II appliances
- Index of protection: IP64 ~ NEMA3R 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 EMC: 89/336/EEC and with the following norms:
- EN61000-6-1, EN61000-6-3 (immunity for residential, commercial and lighth-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: E31024

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 main 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 mixes of flammable gases are present, dust, strong vibrations or chock, large and rapid fluctuations in ambient temperature that in combination with high humidity can condensate, strong magnetic and/or radio interference (e.g. transmitting antennae)
- 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