



Control panel

MMIGRS2 / MMIGRS2CC

Electronic controller suitable for all HVAC/R software application needs.



Description

MMIGRS2 and MMIGRS2CC close control are MCX's family remote interface. It's fitted with a graphic display that allows a complete customization of the user interface. 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 MMIGRS2/MMIGRS2CC interface. Both are powered externally or from the controller which it is connected to and automatically shows its user interface.

Features & Benefits

- Full graphic LCD display, 128 x 64 dots resolution
- Easy connection to MCX CANbus network through telephone plug and CAN connector
- No need to be programmed: information about user interface is loaded from the MCX controller
- Powered by the MCX which it is connected to
- Dimensions 88 x 150 mm
- Panel and wall mounting
- IP64 protection rating on panel version
- 2 dedicated keys for easy access to alarm and ON/OFF functions (only in MMIGRS2CC)
- 3 coloured back lighted keys: red, orange and green (only in MMIGRS2CC)

Ordering

Product code numbers

Type	Further information	Display type	Mounting method	Packing format	Quantity per packing format	Code number
MMIGRS2		LCD	Panel mounting	Single pack	1	080G0294
MMIGRS2		LCD		Single pack	1	080G0295
MMIGRS2		LCD	Panel mounting	Industrial pack	27	080G0297
MMIGRS2	Close control	LCD	Panel mounting	Industrial pack	27	080G0298
MMIGRS2	Close control	LCD		Single pack	1	080G0299

Note: Both single pack and industrial pack codes include standard kit connector

Accessories code numbers



080G0075

Electron. control accessories, ACCCBI Cable, U.I. 1.5m, MCX series

ACCCBI Cable, U.I. 1.5m, Used for product: MCX series, Packing format: Multi pack, Quantity per packing format: 100

Related products

[080G0294](#)[080G0295](#)[080G0297](#)

[080G0298](#)[080G0299](#)



080G0076

Electron. control accessories, ACCCBI Cable Telephone U.I. 3m, MCX series

ACCCBI Cable Telephone U.I. 3m, Used for product: MCX series, Packing format: Multi pack, Quantity per packing format: 100

Related products

[080G0294](#)[080G0295](#)[080G0297](#)

[080G0298](#)[080G0299](#)



Product details

General data

Table: General features

Features	Description
Power supply	From the MCX through the RJ12 telephone connector
	12 – 30 V DC SELV (separate power supply is recommended)
	24 V AC +10% / -15% SELV (separate power supply is recommended)
	Maximum power consumption: 1.5 W
Plastic housing	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: ≥ 250 V according to IEC 60112
Operating conditions	CE: -20T60 / UL: -20T60, 90% RH non-condensing
Storage conditions	-30T80, 90% RH non-condensing
Integration	In Class I and / or II appliances
Index of protection	IP64 ~ NEMA3R (panel version)
	IP40 (wall version)
Period of electric stress across insulating parts	Long
Resistance to heat and fire	Category D
Immunity against voltage surges	Category II
Software class and structure	Class A

Dimensions & weights

Figure: Panel mounting

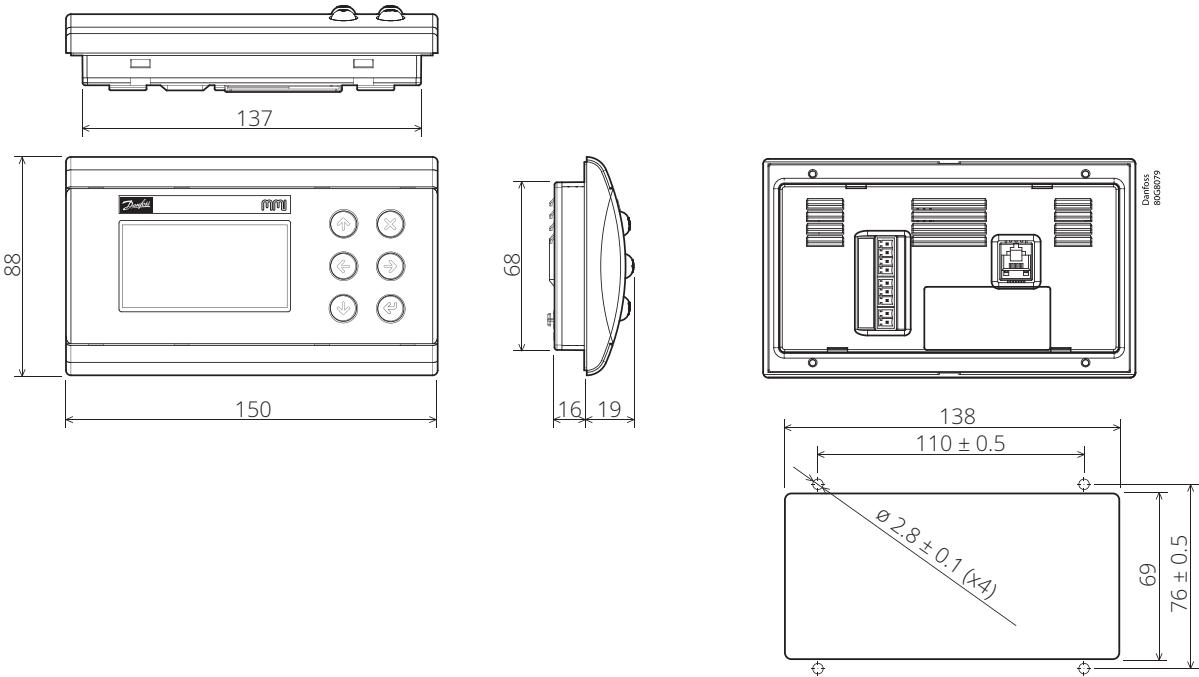




Figure: Wall mounting

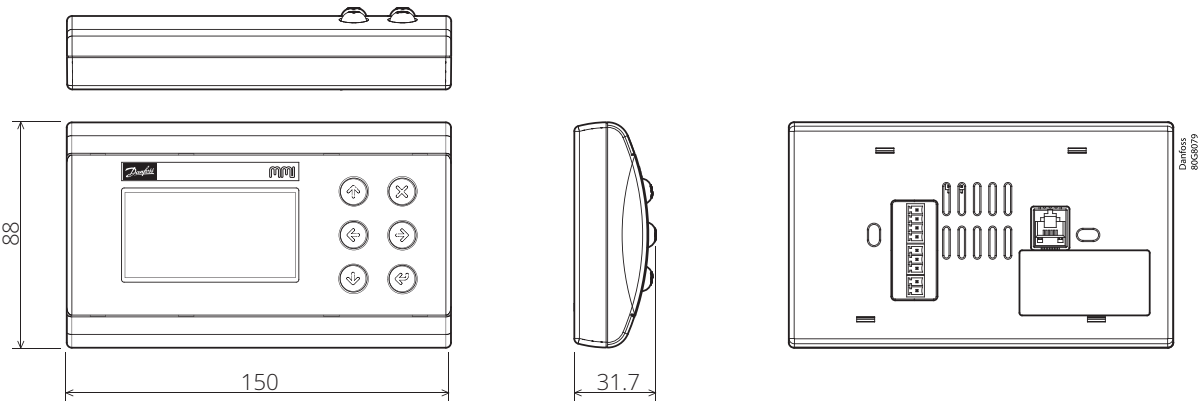


Table: User interface

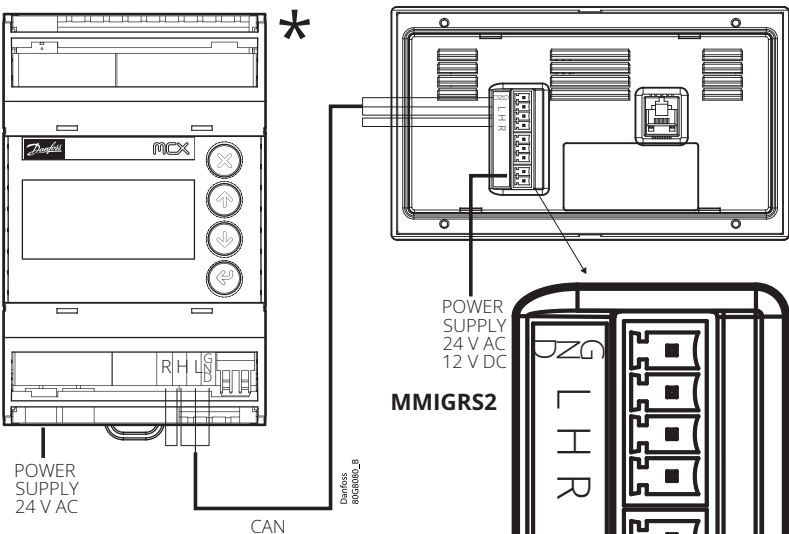
Type	Features	Description
LCD display	Display	Graphical LCD blue transmissive
	Backlight	White LED backlight adjustable via software
	Contrast	Adjustable via software
	Format	128 x 64 dots
	Active visible area	66.5 x 33.2 mm
Keyboard	Number of keys	MMIGRS2: 6, white LED backlight keys individually managed via software MMIGRS2CC: 6, of which 3 with respectively green, red, orange LEDs that can be individually managed via software
	Keys function	Set by the application software
Mounting	Panel mounting	See the drilling template in figure, using the screws supplied in the packaging
	Wall mounting	Standard 3 modules box

Connections

Connection diagram – MCX or MCX06

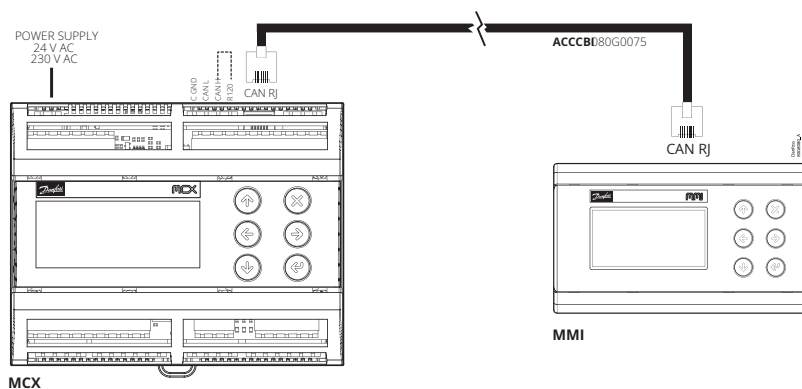
CANH-R connection should be done only on the first and last element of the network

Figure: MCX06D - MMIGRS2/MMIGRS2CC



MCX06D

Figure: MCX - MMI



Note: *When MMI is not connected to Danfoss controller via telephone cable, the autodetection feature of the MCX CAN address will not work.

Therefore check the following MMIGRS2 setting:

1. Enter BIOS menu pressing and holding X + Enter keys for 5 seconds.
2. Select "MCXselection" -> "Manual Mode" and set the CAN address of the MCX you wish to connect to.

Table: Connection

Connectors	Type	Dimensions
Power supply connector	24 V AC - 2 way screw plug-in connector type	- pitch 3.5 mm - section cable 0.08 – 1.5 mm²
CAN connector	4 way screw plug-in connector type	- pitch 3.5 mm - section cable 0.08 – 1.5 mm²
CAN-RJ connector	6/6 way telephone RJ12 plug type	

Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
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Manufacturer's Declaration	Danfoss MD 080R4002.01	Danfoss	China RoHS
UA Declaration	UA 2024-06-27 electr protection units for compressors	Danfoss	LVD
UA Declaration	Danfoss UA 8537	Danfoss	UA RoHS
Electrical Safety Certificate	UL E31024	UL - Underwriters Laboratories inc.	
Export Control Declaration	MCX programmable controller accessories	Danfoss	

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