Danfoss

Technical brochure

Programmable controller MMIMYK

Danfoss' range of universal MCX programmable controllers offers the functionality and reliability you need to get the best out of your heating, ventilation, air-conditioning and refrigeration (HVAC/R) equipment. With the MCX range, Danfoss is widening the concept of programmability and applying it to as many environments as possible

MMIMYK is the advanced "all in one" device that performs up to three different functions:
- Programming module;
- Gateway;
- Data logger.

It has a bright graphic display and a keyboard that enable to configure the module to run several functions. It has also a slot for MMC card (Multi Media Card) to extend the memory capacity

Features MMIMYK

- Full graphic OLED display, 128x64 dots resolution
- Easy connection to MCX CANbus network through telephone plug
- MMC card slot for easy software upload and datalogging
- Modbus RS485 serial interface

- Powered by the MCX which it is connected to or the other way round
- Can execute an application like any MCX device
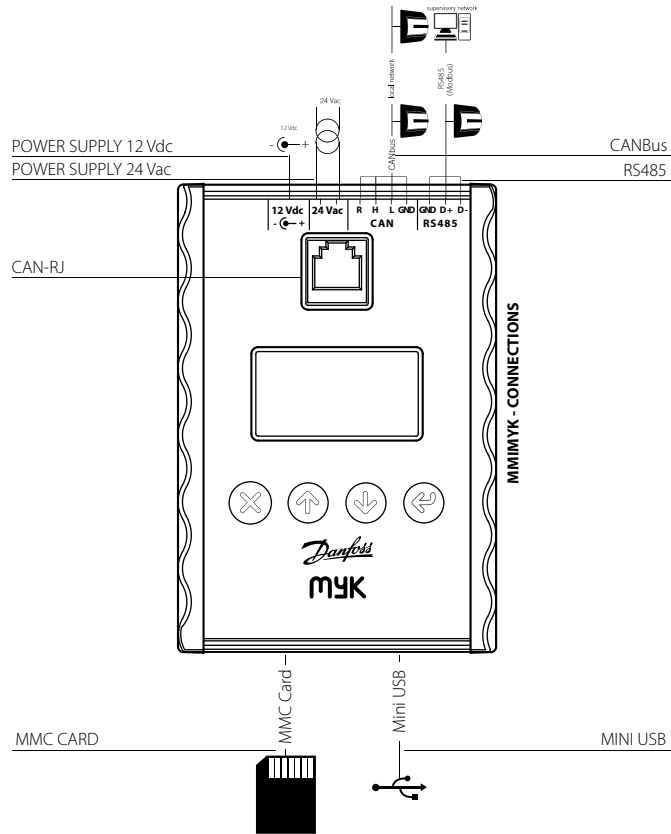- Dimensions 105x72 mm
- Mounting DIN rail or portable

Programmable	Protection degree	CAN bus	Graphic display	Multilanguage	Modbus RS485	Memory card
PRG	IP20	CAN			485	MMC

General features

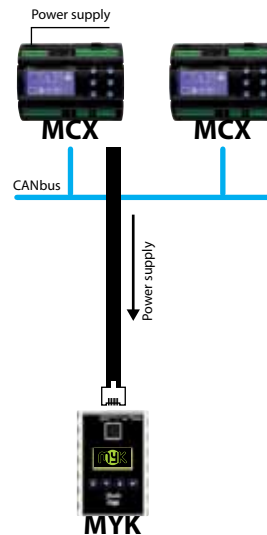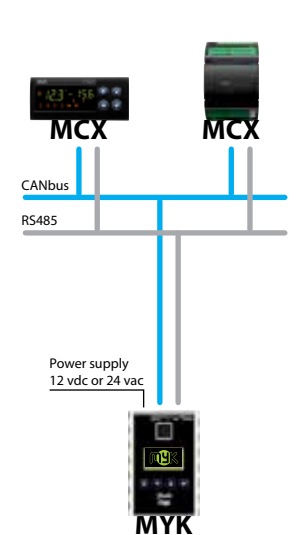| FEATURES	DESCRIPTION
Power supply	From the MCX through the RJ11 telephone connector
	12 Vdc (from DC connector)
	24 Vac (from screw plug-in connector type pitch 3.5 mm): on this supply it is advisable to use a dedicated transformer 24 Vac-10 VA
	From USB 2.0 (maximum 500 mA)
Plastic housing	DIN rail mounting complying with EN 60715
Ball test	125 °C according to IEC 60730-1. Leakage current: ≥250 V according to IEC 60112
Operating conditions	CE: -20T60, 90% RH non-condensing
Storage conditions	-30T80, 90% RH non-condensing
Integration	In Class I and/or II appliances
Index of protection	IP20 only on the front cover
Period of electric stress across insulating parts	Long
Resistance to heat and fire	Category D
Immunity against voltage surges	Category I
Software class and structure	Class A
Approvals	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 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)

Connection diagram

POWER SUPPLY 12 Vdc
POWER SUPPLY 24 Vac

CANBus
RS485

CAN-RJ

MMIMYK - CONNECTIONS

12 Vdc | 24 Vac | R H L GND | GND D+ D-
CAN | RS485

MMC CARD

MINI USB

Network diagram

DIRECT CONNECTION TO MCX
MMIMYK supplies power to MCX
(programming function)

MCX   MCX

Power supply
12 vdc or 24 vac

MYK   MYK
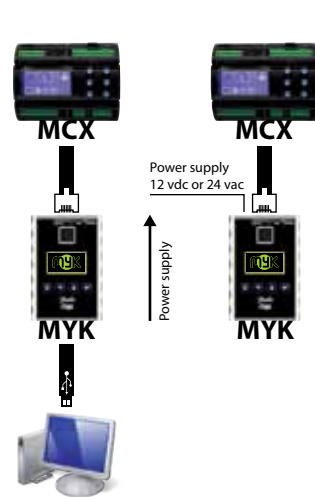
Power supply

NETWORK CONNECTION
MMIMYK powered by MCX

Power supply

MCX   MCX

CANbus

Power supply

MYK

NETWORK CONNECTION
MMIMYK externally powered

MCX   MCX

CANbus

RS485

Power supply
12 vdc or 24 vac

MYK

Connection

CONNECTORS	TYPE	DIMENSIONS
CAN-RJ connector	6/6 way telephone RJ11 plug type	
Power supply connector	DC JACK type	- Ø 3.5 x 1.3 mm
Power supply 24 Vac connector	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
RS485 connector	3 way screw plug-in connector type	- pitch 3.5 mm - section cable 0.08-1.5 mm²
USB connector	Mini type B	
MMC connector	For memory card MMC type	- up to 2 GB

Dimensions
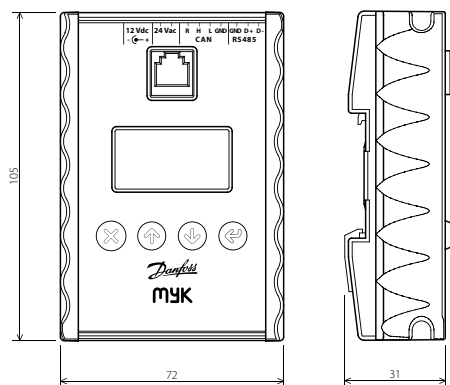
User interface

TYPE	FEATURES	DESCRIPTION
OLED display	Display	Graphic OLED
	Format	128x64 dots
	Active visible area	35x17.5 mm
Keyboard	Number of keys	4
	Keys function	Set by the application software
Memory	Internal	2 MB
	MMC	Expansion slot (Multi Media Card) up to 2 GB

Ordering

DESCRIPTION	CODE NR.
MMIMYK, PC/MCX INTERFACE AND MCX PROGRAMMING, S	080G0072
MMIMYK, PC/MCX INTERFACE AND MCX PROGRAMMING, DATA LOGGING, S	080G0073

(S): Single Pack
Note: Single pack include standard kit connectors

Accessories

DESCRIPTION	CODE NR.
MMIMYK CONNECTORS KIT	080G0176