

# MCX lets you take control of your system



Flexibility is the key feature of the MCX controller with an open programming platform you get freedom of choice to adapt the electronics to your application and not vice versa.

Easy to program using the C programming language, the MCX controller provides unique versatility and freedom compared to proprietary systems.

## Application development options include:

- C-editor and user interface editor
- MCX compiler and debugger
- MCX PC simulator
- Data analysis
- MODbus PC communication interface

If you do not require full programmability, the MCX is also available with a number of standard applications that offer an exceptional level of customisation.

## Integration with building management systems

With MCX a wide range of communication options, based on open standards, are available:

- Integration with Building Management System via MODbus directly
- System integration with other protocols, e.g. LONWORKS and BACnet
- Web pages for internet or intranet access
- Remote access via modem or MODbus over Ethernet
- Data logging

## Hardware modularity

The wide range of control modules and accessory modules allows you to create a cost effective solution that matches your exact needs.

- Extension modules for extra input and output
- Interoperability between units, e.g. chillers in lead/lag set-up
- One display device can act as service interface for any unit
- Compliance with 3rd party screen solutions, e.g. large touch screen.

## Full control of peripherals

Open protocols provide all the control designers need and support integration via Modbus as well as CANbus, which features:

- Fast communication – up to 1 Mbit on 30 m (100 ft) cable length
- Highly scalable, up to 127 networks with up to 100 nodes each.

SELECTION GUIDE	MCX06C	MCX06D	MCX08	MCX15	MCX20
<b>Analogue Inputs</b>					
NTC, 0/1V, 0/5V	2	2	4	4	6
NTC, PT1000, 0/1V, 0/5V, 0/10V, ON/OFF, 0/20mA, 4/20mA Selectable via software	2	2	4	6	10
Max. number	4	4	8	10	16
<b>Digital Inputs</b>					
24V Optoisolated	-	-	-	18	22
230Vac Optoisolated	-	-	-	4	4
Voltage free contact	6	8	8	14*	18*
Max. number	6	8	8	18	22
<b>Analogue Outputs</b>					
0/10Vdc Optoisolated	-	-	2	4	6
0/10Vdc, PWM, PPM Selectable via software	1	2	-	-	-
PWM, PPM Phase cutting	1	1	2	2	-
Max. number	2	3	4	6	6
<b>Digital Outputs</b>					
SPST Relay 8A	6 (5A)	5 (5A)	2	9	13
SPDT Relay 8A	-	1	4	4	4
SPST Relay 16A	-	-	2	-	2
SPDT Relay 16A	-	-	-	2	1
SSR 24Vac/230Vac (optional)	-	1*	6*	13*	17*
Max. number	6	8	8	15	20
<b>Power Supply</b>					
20/60Vdc - 24Vac	Available	Available	Available	Available	Available
110-230Vac - 50/60Hz	-	-	Available	Available	Available
Isolated power supply	Available	Available	Available	Available	Available
<b>Others</b>					
Real Time Clock	Available	Available	Available	Available	Available
Programming key connection	Available	Available	Available	Available	Available
Built-in display	LED	LED/LCD	LCD	LCD	LCD
Remote display connection	Available	Available	Available	Available	Available
Buzzer	-	Available	Available	Available	Available
Optoisolated EIA-485 interface	1 (non Opto)	1	1	2	2
CANbus	Available	Available	Available	Available	Available
Dimensions: DIN modules	-	4	8	16	16

\* Available on request

**An Italian manufacturer has chosen the MCX controller to secure accurate control with their range of process chillers. They chose the MCX controller because it is designed with "open and standard programming language". This means the manufacturer can programme the controller on their own, thereby adding different features to their chillers. Previously they had to buy several controllers from different suppliers to get the features they required**