

FIELD CONTROL UNIT



FCU-2200

Application

The FCU-2200(Field Control Unit) is a high performance Level as 32bit Direct Digital Controller(DDC), directed to an open-oriented system, and can effectively accommodate changes in the building automatic control systems that require high reliability and easy system maintenance capabilities.

Because FCU-2200 is native BACnet DDC obtain B-BC certification from BTL, It is possible to implement all the functionality required for DDC with BACnet. It ensure the compatible multi-mode operation with the existing building automation system by just as Imply change of setting.

Built-in 32-channel input and output ports(AI: 8 / BI: 8 / AO: 8 / BO: 8) and expansion modules(XIM series) can be expanded up to 160 inputs and outputs through the connection port. Through a function block, like Flow-chart builder Is easy to control and programming logic 100 enables optimal control program written for a variety of equipment, and It can directly Control the functions(setup, control, management, etc) of DDC in the field through the operation key.

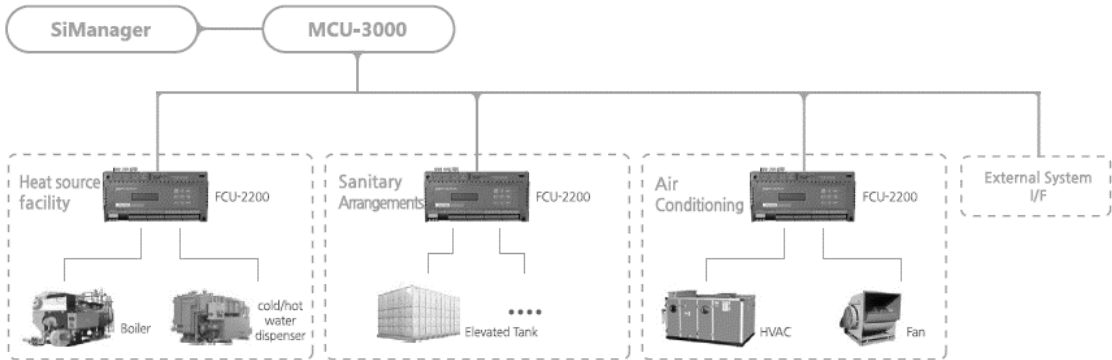
Feature

- Monitoring and control functions(Point Management) and field settings function(LCD & 9Membrane Key)
- PID convenient control algorithm implemented using the air conditioner control, including over 100 of the function block
- Flow-chart like this can create a dedicated software control algorithm provides (Logic-Builder)
- Time schedule function(BACnet Schedule, Calendar Object support)
- Supported Protocols : BACnet, Cu-Net, Modbus
- Embedded Webserver : Device settings and point monitoring and control
- Extension of 4 input and output points through expansion(XIM Series) (Max 160 points)
- DDC status , communication status, LED display device for displaying the output state

Technical Data

CPU	- 32bit ARM9, 96Mhz
Memory	- SDRAM : 96KB - Serial Flash Memory : 2MB - NVRAM : 2MB MRAM - Data Flash Memory : 512KB
Communication	- LAN : 10/100 MHz, RS-485:3 Port
Display	- 16X2 DOT MATRIX LCD/w LED Backlight
Key	- 9-KEY Membrane Key-Pad
Timer & RTC	- Battery Backup Real-time Clock
Self-Diagnostic	- WDT(Watch Dog Timer) Function
LED Status	- RUN/ERR, TX1, RX1, TX2, RX2, TX3, RX3
Address & Function S/W	- Rotary Switch 2ea(0~99)
Analog Input	- Resolution : 20 bit ADC - Over Voltage Protection, Noise Filter & Surge Protection - Input Type (Selection Jumper) . RTD : NI1000(Nickel), SI1000(Silicon), PT10000(Platinum) Thermistor 10k, 0-2kΩ(User Define) . Volt : 0~10V, 2~10V, 1~5V . Current : 0~20mA, 4~20mA
Analog Output	- Resolution : 10 bit DAC - ESD & Surge Protection - Output Range (0~100%) : 0~10V, 2~10V
Digital Input	- Isolation : Photo Coupler, ESD & Surge Protection - Input Type : Dry Contact
Digital Output	- Isolation : Photo Coupler, ESD & Surge Protection - Output Type : Relay Output(max. AC250V/1A)
Power Requirements	- AC/DC 24V, 50/60Hz, MAX 0.6A
Ambient Operating Conditions	- -10°C ~ 60°C, 10%RH ~ 90%RH (non-condensing)
Dimensions(WxHxD)	- 241x115x50(mm)
Housing	- DIN Rail / Panel Mount

System Configuration



Shape Dimension

