

- >> Integrated 10.4" touch screen
- >> BACnet/IP Controller B-BC Profile
- >> Modular Expandable I/O
(BACnet MS/TP or Modbus-RTU)
- >> TCP/IP Ethernet port
- >> USB Port
- >> Windows CE Professional
- >> Integrated Web server
- >> Micro SD card reader
- >> In Built RTC



Total overview and control

The FX-2030A is fully programmable native BACnet™ building automation controller, equipped with a stable Windows CE professional, in a durable industrial PC housing. It's internal web- and FTP-server allow easy access to and control over the pages you show. Running the open standard IEC 61131-3 for PLC programming, this freely programmable controller can manage all the I/O points you need for your projects. The controller uses standard Modbus RTU communication to our I/O modules to seamlessly connect sensors, pumps, motors, fans, actuators, coolers or any other equipment you might want to control or communicate through BACnet/Modbus with other equipment, such as frequency converters or pumps. The FX-2030A comes standard with three Field bus ports. You can extend the FX-2030A's reach even more with one or more multiLINK modules to connect supplementary Modbus or M-bus loops.

Technical features

BACnet Device Profile:	BACnet Building Controller (B-BC)
BACnet data point objects:	2000 per controller (Physical and Virtual)
CPU:	NVIDIA Tegra 2 dual-core Cortex-A9 (32 Bit) MPcore
Memory:	512MB DDR2
Operating system:	Windows CE Professional
Operating temperature:	0 to +50°C
Operating Voltage:	12 to 24 VDC
Maximum Load:	750mA
Communication Ports:	1 x 10/100 Ethernet port, 3 x RS-485 Ports, 1 x modem port, 1 x USB, 1 x DVI Port
Dimensions(Back/Front panel):	264x230mm/280x246mm (x58mm depth)
Historical trends:	20,000 changed values per point
Maximum fieldbus connection:	3 built-in serial ports and 5 IP ports
Installation:	On substation door (protection class up to IP54)

Fieldbus ports: use a serial ports to connect modules using BACnet MS/TP or Modbus RTU, RS-485. The maximum number of modules per loop is 63, addressed from 1-63. FX-2030A comes with three fieldbus loops. If you need more, you can use our multiLINK communication module to add three additional Fieldbus ports.

Other ports: Use the DVI port to connect an external display, and the USB port to connect an external mouse and/or keyboard. The serial COM1 port can be used with a standard SMS modem. The RJ45 Ethernet port can be used with a fixed IP address, or the controller can get an address through the network's DHCP server.

Programming: The FX-2030A has an embedded FTP and web server. The pages you make with our HTML editor, that contain the point names that are linked to physical points, will be shown locally in the exact same way you can consult them remotely with a standard browser. At startup, the local browser is started full screen, offering the end user the exact view you want them to see.

Use our Integrated Development Environment FX-Editor, combining the webpages you create (HTML), the point programming and the PLC code (using IEC 61131-3 standards), to create, manage and maintain projects fast and efficiently.

Networking: FX-2030A's can exchange information with each other over a TCP/IP network, offering virtually unlimited expansion of the system. The controllers can share measurements (e.g. outside temperature) or other relevant point data. The FX-2030A can also transmit information to a Fidelix webVision SCADA server with its own user interface to make control and management even easier by offering a dedicated multi-station overview and grouping measurements and/or history data from several controllers into easy and clearly understandable reports.

MircoSD card: The MicroSD card has a dual functionality. The FX-2030A automatically makes weekly backups to the MicroSD card (during nighttime), something you can also do manually through the user interface or by briefly (< 1 sec.) pushing the reset button (though pressing the reset button will also restart your system after the backup has been made). When using a 24 VDC power supply, the capacitor gets charged enough to take a backup of the point data in case of a rupture in power supply.

On the other hand, the MicroSD card can also be used to restore the system to a previous state, or to quickly load complete programs in projects where you have multiple identical systems.

