Fidelix

FX-3000-X

All-in-one building automation system controller

- ❯ Freely programmable Linux-based controller
- ❯ Modern web user interface
- ❯ Support for Modbus and M-Bus communication
- ❯ Integrated WiFi router (802.11b/g/n)
- ❯ TOSIBOX® Readiness feature for secure remote access
- ❯ DIN-rail mountable

Efficient building technology management

The FX-3000-X is a versatile building automation controller. It is freely configurable, communicates using Modbus, M-Bus, serial, UDP or TCP and has an on-board NAT router with 802.11b/g/n Wi-Fi.

Out of the box fully equipped with web server, history recording, user management, energy reporting capabilities and many more features, the FX-3000-X is an all-you-need solution for all your building automation needs.

The integrated TOSIBOX® Readiness feature enables an easy and secure remote access solution through VPN.

Programming and parametrising the FX-3000-X is done with our software suite FX-Editor, offering a clear and efficient project overview. It makes programming the controller not only an easy, but also a speedy task.

Combining the controller with our FdxCompact I/O's is done easily by using the click-on T-Bus connectors on a DIN-rail, through which both power and communication is connected.

Technical features

Dimensions:	99 x 68 x 112 mm
Weight:	350 g
Power consumption:	3-6 W
Operating voltage:	24 VDC (+/- 15%)
Operating temperature:	0 to +40°C
Storage temperature:	-40 to +85°C
Relative humidity:	90%, no condensation
IP-Class:	20

Power supply: Power can be provided either from the side (next to the Wi-Fi antenna), or from the bottom, through the click-on T-Bus connector on the DIN rail. With this connector, FdxCompact modules can be connected to the same power supply. The controller can handle a load of maximum 7A.

Modbus communication: The controller has one built-in RS485 serial port (COM3). Using the FX-RS485-C extension module, two additional RS485-ports can be connected.

COM-port 3 connects to the click-on T-BUS connector on the DIN-rail to which up to 63 FdxCompact modules can be directly connected. Alternatively the included screw terminal connector can be used to connect the port to classic modules or other equipment. The serial ports can be independendly parametrised in terms of protocol, baudrate, parity and the number of stop bits.

Using the Fidelix multiLINK, more serial ports can be parametrised.

USB: The controller has 2 USB ports. With the Update Tool software, the USB1 port can be used to update, consult or reset certain settings that require local intervention. The USB2 port is used to connect a 4G-modem for the TOSIBOX® Readiness secure remote access functionality.

Networking: The controller has one Ethernet port, marked 'WAN', to connect the controller to an external network. The three other ports, marked 'LANx' can be used to connect a VISIO touchscreen display, extend the local network (daisy-chain), connect multiLINK modules, or to connect field devices. All ports operate at 10/100 Mbit/sec and have automatic speed negotiation.
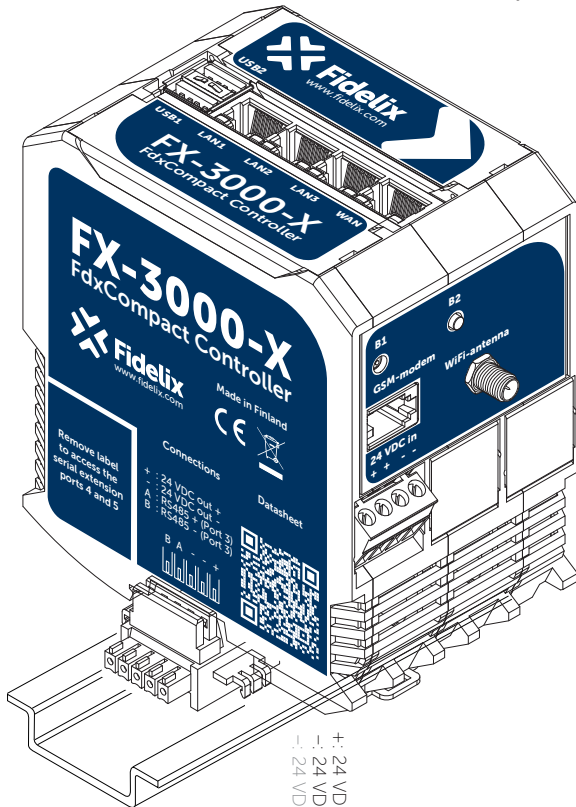
Wi-Fi: The wireless network ioffers a 150 Mbps connection via 802.11b/g/n modes.

Web server: The FX-3000-X has an embedded SFTP for file transfers and a web server for browser user interface. The UI shown on the optional FdxCompact VISIO touchscreen display is the same as what is shown remotely in a browser.

GSM-modem: The FX-3000-X offers an RS232 interface to the COM1 port of the controller. This is used to send out alarms as SMS messages via a serial modem.

µSD card: The controller has a µSD card for automatic weekly backups.

Power consumption: The controller is to be powered with 24 VDC and consumes between 3 and 6 W, with peak load up to 10 W.

Technical specifications:

› Dual core ARM Cortex-A9, 1.0 GHz processor
› 512 MB DDR3 RAM (64 bit),
› 4 GB eMMC Flash
› Linux-based operating system