

YOUR ONE STOP CONTROL SHOP



FS-20

20-POINT IP CONTROLLER

DESCRIPTION

The FS-20 is a high-performance network controller with a 1.2 GHz quad core processor, 512 MB RAM, 8GB flash memory, HTML5 graphics, a suite of applications and kits, and multifunctional adapter widgets.

The FS-20 offers incomparable performance and live programming via EasylO CPT Tools. The FS-20 supports the latest IT network and security standards. The built-in VPN allows for secure remote connectivity, a unique feature in a controller. Protocols such as BACnet, Modbus, MQTT, Sox, and TCom are supported. The FS series includes SQL database and REST API for additional data integration and multi-system interoperability. Flash RAM enables data collection and storage at the device. The FS-20 has 12 UI, 6 UO, and 2 DO. Input point capacity can be expanded using the FD20i. Device and engineering licenses and annual maintenance upgrades are included in the one-time cost of the controller.

FEATURES

- On board 8GB of EMMC for storage and history
- Supports Enterprise Network Security 802.1x and TLS 1.2, SSL, IPv6 and DHCP Client
- BACnet MSTP Client/Server, BACnet IP Client/Server, Modbus RTU Master/Slave, Modbus TCP Master/Slave, MQTT, TCOM, SOX
- EasyIO Peer to Peer Protocol, compatible with FS, FG+, FW & FT Series
- Built-in HTML 5 web server and SSL certificate support

- RESTful API and other web services
- Built-in VPN Server and Client
- Network Time Protocol (NTP) Client
- SMTP protocol (outgoing email) with SSL authentication
- SQL Lite up to 100,000 records
- Built-in Dashboard

TECHNICAL DATA

ITEM	DESCRIPTION
Supply Voltage	24Vac +/- 5% or 24Vdc +20% / -15%
Power Consumption	18VA
Current Rating	500mA at 24Vac / Vdc
Storage temp	-20°C to 85°C
Operating temp. range	0°C to 65°C
Operating Humidity	10% to 90% RH non-condensing
Dimensions	198 x 104 x 44 (mm)
Vaterial	UL Approved
Weight	436g
Main Processor	1.2 Ghz Quad Core ARM A7
Processor	ARM Cortex 48 Mhz
Flash Memory	8 GB
RAM	512 MB
SD Card Holder	Yes. For Application backup Storage
	1 x Ethernet Port 10Mb/ 100Mb
Ethernet	10Base-T / 100Base-T interface, half or full duplex
RS 485 Ports	2 x R\$485
Real Time Clock (RTC)	Real Time Clock with min. 5 days backup by superCAP
Power Failure Protection	SuperCap Apps Safety Backup
	IPv6, DHCP Client, SSL, TLS 1.2, 802.1x,
Network Security Standard	VPN Client and Server
Database and API	SQL database, MQTT and REST API
	BACnet MSTP Client, BACnet IP Client / Server, Modbus RTU Master/Slave, Modbus TCP
Protocols Supported	Master/Slave, TCOM, web services, HTML5, SOX
Email Service	SMTP Protocol (outgoing email) with SSL authentication
Time Sync Protocol	Network Time Sync Protocol
Modbus Baud Rate	Speed: (9.6K, 19.2K, 38.4K, 57.6K), Data Bits: 8, Parity: Odd, Even, None
BACnet Baud Rate	Speed : 9.6K, 19.2K, 38.4K, 76.8K
	12 x UI , 12-bit ADC with PGA
	Resistance mode: 500 – 500K Ohms (+/- 10 Ohms)
	Voltage Mode : 0-10V (+/- 0.05V)
	Current Mode : 0-20mA DC (+/- 0.01mA)
	Impedance < 25 Ohms
	Pulse count mode (max): 20 Pulse per sec at 50% duty cycle (20Hz)
Universal Inputs	Digital Mode : Voltage Free Contact
	2 x DO (with LED Indicator)
Digital Output	Type: Relay Contacts, SPST NO, 48VA/2A at 24V
	6 x UI , 12-bit DAC
	Voltage Mode : output range 0-10Vdc , Min load
	Impedance 2,000 Ohm
	Maximum 5mA current draw
	Current Mode: 0-20mA, Max. Load Impedance 800 Ohm
Universal Output	Digital Mode: maximum sinking current 200mA (for Switching Relays)

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