The DDC28P, can control and manage remote controlled devices in the fieldbus connection, to meet the general or specific application.

The DDC28P, suitable for use as a simple input and output monitoring module is also suitable as an internal need independent monitoring of specific logic controlled equipment fooled controller uses.

Vykon DDC28P

Summary

Vykon DDC28P™（The DDC28P is rugged, high performance multi-protocols Input/Output controller to accommodate general and specific application, featuring BACnet MSTP/IP and Modbus RTU/TCP protocols）.

Feature

Standard Communication protocols

- The controller comes with BACnet MSTP/IP and Modbus RTU/IP communication open protocols, which is able to accommodate most of the Building Automation application..

Multiple Input/Output Types

- The controller comes with eight Digital Inputs, eight Analogue Inputs (current, voltage，resistance and temperature sensor), eight Digital Outputs (Relay), and four Analogue Outputs(current and voltage).

High Accuracy Analog Channels

- 12-bits A/D converter with programmable gain amplifier yields a high resolution and accuracy reading on analogue input points.
- 12-bits D/A converter provides more accurate analogue output control.

Online Firmware Upgrade/Configuration

- The controller firmware can be upgraded and configured via Rs485 or TCP/IP.

Robust System Operation

- The controller has a built-in high accuracy Real Time Clock with backup battery.
- Software and hardware watchdog timer are provided for high reliability operation.

Energy And Device Management Function Module

- Comes with specific function modules for energy and device management.

General and Specific Function Module

- Built-in general and application specific function modules.

Specifications

Electrical	
Power	24VAC+5%/-15% or 20VDC～34VDC,
Consumption	<11VA
Operating Temperature	0℃ to 55℃ (32° to 131℉)
Storage Temperature	-20℃ to 85℃ (-4° to 185℉)
Operating Humidity	0% to 95% Relative Humidity, Non-condensing
Battery	Panasonic CR1220 Lithium Coin Battery

Communication	
Port 1	EIA-485 Standard Two Wire, Half Duplex, 1/8 Load
Baudrate	9.6K, 19.2K, 38.4K, 76.8K, 115.2K bit/s
Data Bit	8 bits
Parity	None, Even, Odd
Protocol	Bacnet MSTP, Modbus RTU
Port 2	Ethernet 10/100 Base-T
Protocol	Bacnet IP, Modbus TCP

Input/Output	
Analogue Input	8 Channels, 12-bits with PGA
Voltage	0 - 10V (±0.01V), 0 - 5V (± 0.01V)
Current	4 - 20mA (±0.01mA)， 0 - 20mA (±0.01mA)
Resistance	0 - 30K (±10 Ohm)， 0 - 10K（±5 Ohm），0 - 1.5K (±1 Ohm)
Thermistor Sensor	NTC: 10K TYPE 2/3，3K，20K（±0.1℃） RTD：1K Balco，1K Platinum（±0.2℃）
Digital Input	8 Channels
Type	Dry Contact, Non-isolated；
Limit	ON State < 2000Ω, OFF state > 20000Ω
Digital Output	8 Channels
Type	Relay, SPST NO, 24VAC/DC, 1A
Analogue Output	4 Channels, 12-bits
Type	Current: 0 - 20mA, 4 - 20mA (Max load resistance, 800Ω)
	Voltage: 0 - 10V

Others	
CPU	ARM Cortex 32-bit, 80MHz
Size	L 198mm × W 122mm × H 41mm
Casing Material	UL94 ABS
Weight	410±5g