

STATION CONTROLLER SC5000

INTRODUCTION

Revision Date: 12-30-22

CONTROL MODES

- Level Control Mode
- Flow Control Mode
- Pressure Control Mode
- Booster Control Mode

STANDARD I / O

- Ethernet Port ENET1 with Modbus TCP Protocol - for connection to: SCADA System
- Ethernet Port ENET2 with Modbus TCP Protocol - for connection to: SC5000-CTS-HMI
- RS232 Port COM1 with Modbus RTU Protocol - for connection to: SC5000-LED-HMI
- 1 USB Host Port for Backup and Restore of Setup Parameters
- 1 Analog Output, Isolated 4-20mA (AOX1)
May be Assigned to Application Specific Functions
- 2 Analog Inputs, Isolated 4-20mA (AIX1 - AIX2)
May be Assigned to Application Specific Functions
- 12 Relay Outputs (ROX1 - ROX12)
May be Assigned to Application Specific Functions
- 30 Discrete Inputs (D1 - D30)
May be Assigned to Application Specific Functions

OPTIONAL I / O

- 6 Analog Outputs, Isolated 4-20mA (AO1 - AO6)
May be Assigned to Application Specific Functions
- 8 Analog Inputs, Isolated 4-20mA (A1 - A8)
May be Assigned to Application Specific Functions
- 3 Discrete Pulse Capture Inputs, Isolated (DPC1 - DPC3)
Discrete Pulse Capture Input DPC1 - Assigned Function of: Pulse Flow Meter PFM1
Discrete Pulse Capture Input DPC2 - Assigned Function of: Pulse Flow Meter PFM2
Discrete Pulse Capture Input DPC3 - Assigned Function of: Pulse Flow Meter PFM3

SPECIFICATIONS

- Input Power: 24 VDC \pm 10%, 0.6 A max
- Dimensions (Width x Height x Depth): 10.340" x 6.750" x 6.208"
- Ambient Operating Temperature: -20°C to +65°C (-4°F to +149°F)
- Color: White with Blue Graphics
- Discrete Inputs: \pm 6 V, 60 Hz Square Wave \pm 0.6 mA max, Transient Protected
- Relay Outputs: 8 A @ 120 VAC Resistive
- Analog Outputs: Isolated 4-20 mA, Transient Protected, Maximum Load: 900 Ω
- Analog Inputs: Isolated 4-20 mA, 100 Ω Load, Transient Protected
- Pulse Capture Inputs: Isolated, Transient Protected
Maximum Pulse Frequency: 60 kHz (with Duty Cycle Between 40% - 60%)
Power Supply Options: +5 VDC, +12 VDC, or +24 VDC
Pull Up or Pull Down Resistor Supplied with Controller: 5.1 K Ω