

# STATION CONTROLLER SC5000

## INTRODUCTION

Revision Date: 12-12-24  
Operating Program Revision: 5

### CONTROL MODES

- Level Control Mode
- Flow Control Mode
- Pressure Control Mode
- Booster Discharge Pressure Control Mode
- Booster Supply Pressure Control Mode

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### 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: 24VDC  $\pm 10\%$ , 0.6A max
- Agency Approvals: UL 508, CAN/CSA
- 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:  $\pm 6V$ , 60Hz Square Wave  $\pm 0.6mA$  max, Transient Protected
- Relay Outputs: 8A @ 120VAC Resistive
- Analog Outputs: Isolated 4-20mA, Transient Protected, Maximum Load: 900 $\Omega$
- Analog Inputs: Isolated 4-20mA, 100 $\Omega$  Load, Transient Protected
- Pulse Capture Inputs: Isolated, Transient Protected  
Maximum Pulse Frequency: 60kHz (with Duty Cycle Between 40% - 60%)  
Power Supply Options: +5VDC, +12VDC, or +24VDC  
Pull Up or Pull Down Resistor Supplied with Controller: 5.1K $\Omega$