



48 x 96 mm

Features :

- Compact PLC with built-in HMI
- Configurable LED display
- RS485 based communication with MODBUS Protocol

Display Specifications

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|-------------|------------------------------|
| Display | 7 segment LED |
| Digits | (4 + 4) Red + 6 Green digits |
| LED bank | 4 Red LED's, 4 Green LED's |
| No. of Keys | 5 keys (4 user configurable) |

Input Specifications

| | |
|----------------------------|--|
| Digital Input | |
| Digital inputs | 6 + 2 (Including fast Input & Analog Input Configurable as Digital Input) |
| Input Type | PNP |
| Input Voltage Range | 6 - 30V DC |
| Response Time | Typical 2 mSec (Based on ladder scan time) & 100 μSec for fast Input |
| Debounce Time | 0 to 255 mSec (Default 10 mSec) |
| Fast Input | |
| Input Type | PNP |
| No. of fast Input channels | 1 |
| Max Speed | 5kHz |
| Analog Input | |
| No. of channels | 6 [2 (TC / RTD), 2 (0 - 10V DC), 2 (0 - 20mA DC)] |
| Sensors | J, K, T, R, S, C, E, B, N, L, U, W, PLTNL, PT100 mVolt (-5 to 65mV), 0 - 10V, 0 - 20mA |
| Resolution | 12 bit |
| Accuracy | 0.25% ± 1°C (TC), 0.1% ± 1°C (RTD) at 25°C ±0.25% of FS. ±1 count for AIs |
| Conversion time | 100 ms |

Output Specifications

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|-------------------------------|---|
| Digital Output - Relay | |
| Digital Outputs | 5 (NO type with 2 COM point) |
| Contact Rating | 5A @ 240V AC (Resistive) 5A @ 28V DC (Resistive) |
| Response Time | 10 mSec |
| Mechanical endurance | 5 x 10 ⁶ |
| Isolation | No |
| Analog Output | |
| No. of Channels | 1 (Selectable) |
| Output Range | Current (0 - 20mA DC) / Voltage (0 - 10V DC) |
| Resolution | 12 Bit |
| Digital Resolution | 0.0 - 100.0% = 0.0 - 10.000V = 0.0 - 20.000mA |

| | |
|-----------------|-------|
| Conversion time | 20 ms |
|-----------------|-------|

Communication

| | |
|------------------------|-----------------------------------|
| Communication Port | RS485 [Slave] |
| Communication Protocol | MODBUS RTU |
| Connector | Screw Terminal |
| Transmission Mode | Half duplex |
| Transmission Speed | 9600, 19200, 38400, 57600, 115200 |
| Data Bits | 7 or 8 |
| Parity | None, Odd, Even, Space, Mark |
| Stop Bits | 1 or 2 |
| Settable Slave | 1D - 1 - 255 |

Functional Specifications

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|---------------------|---|
| Programming Method | Windows based software for ladder programming and HMI configuration |
| Memory | Data memory : 16 KB Code memory : 240 KB EEPROM Memory : 1 KB |
| Max. no. of Objects | 2000 (As per memory) |
| Minimum Scan Time | 200 μSec |
| Typical Scan Time | 2 ms (Based on ladder scan time) |

Environmental Specifications

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|---------------------------|---------------|
| Operating Temperature | 0 to 55 °C |
| Storage Temperature | -20 to 70 °C |
| Humidity (non-condensing) | 10% to 95% RH |

Mechanical Specifications

| | |
|----------|----------------|
| Mounting | Panel |
| Weight | 240 gms approx |

