STILE Batcher with Panel Mount Printer In Fiberglass Enclosure & Accessories

Features

- ST1LE Batch/Rate/Total in Fiberglass **Enclosure with Panel Mount Impact** Printer
- Prewired with DC Power Supply for Printer and Terminal Block for Live Power
- RS485 with Modbus RTU Protocols Available
- Fiberglass Enclosure with Hinged Cover and Quick Release Latches

Description:

The ST1LE-PRN-SYS is a complete flow rate/totalizing or flow batching system including transaction printout. The system consists of one ST1LE Rate/Totalizer or Batch Controller with Rate and Total Display, one PMi190 Impact Printer, one MD-20-24 power supply and one 3-Position Terminal Block. (Other accessories are available as needed) The system is enclosed in a fiberglass enclosure and is prewired by the factory prior to shipping (PW option).

ST1LE Batch Controller

Part Number: ST1LEL1A0P (LCD), ST1LEO1A0P (OLED)

Description:

The SUPERtrol-I LE can be programmed for rate/ total indication or batching. The various pulse inputs and outputs can be "soft" assigned to meet a variety of common application needs. The user "soft selects" the usage of each feature while configuring the instrument. A 0-20mA or 4-20mA analog output is standard. This system uses the standard RS-232 Serial Port for transaction printing to a printer. An optional RS-485 serial port using Modbus RTU protocol is available.



PMi190 Printer

Part Number: PMi190 Description: Panel Mount Impact Printer, 24/40 Columns, 240 dots width, 4kb buffer

MS811 Enclosure

Part Number: MS811 Description: Fiberglass Wall Mount Enclosure, 1 ST cutout, 1 Printer Cutout, Hinge Left, Sub Panel with DIN Rail, 3 Fused TB on Power Input, Prewired, Preassembled

24 VDC Power Supply

Part Number: MDR-20-24 Description: 100-264 VAC to 24 VDC power supply for PMi190 printer



ST1LE Specifications:

Environmental Operating Temperature: 0°C to +50°C Storage Temperature: -40°C to +85 C Humidity: 0-95% Non-condensing Materials: U.L. approved UL/C-UL Listed (File No. E192404), CE Compliant Listing: Display Type: 2 lines of 20 characters Types: Backlit LCD, OLED and VFD ordering options Character Size: 0.2" nominal User programmable label descriptors and units of measure Keypad Keypad Type: Membrane Keypad with 16 keys Keypad Rating: Sealed to NEMA 4X / IP65 Enclosure Depth behind panel: 6.5" including mating connector Type: DIN Materials: Plastic, UL94V-0, Flame retardant Bezel: Textured per matt finish Power Input The factory equipped power option is internally fused. An internal line to line filter capacitor and MOV are provided for added transient suppression. 110 VAC Power Option: 85 to 127 Vrms, 50/60 Hz 220 VAC Power Option: 170 to 276 Vrms, 50/60 Hz DC Power Option: 12 VDC (10 to 14 VDC) 24 VDC (14 to 28 VDC) Flow Inputs: **Pulse Inputs:** Number of Flow Inputs: one (single or quadrature) Input Impedance: 10 KΩ nominal Pullup Resistance: 10 K Ω to 5 VDC (menu selectable) Pull Down Resistance: 10 K Ω to common Trigger Level: (menu selectable) High Level Input Logic On: 3 to 30 VDC Logic Off: 0 to 1 VDC Low Level Input (mag pickup) Sensitivity: 10 mV or 100 mV Minimum Count Speed: User selectable (as low as 1 pulse/99 seconds) Maximum Count Speed: Selectable: 40 Hz, 3000 Hz or 20kHz Overvoltage Protection: 50 VDC Linearization: Average K or 16 Point linearization with separate forward and reverse tables **Control Inputs** Number of Inputs: 3 Switch Inputs are menu selectable for Start, Stop, Reset, Lock, Inhibit, Alarm Acknowledge, Print or Not Used. **Control Input Specifications** Input Scan Rate: 10 scans per second Logic 1: 4 - 30 VDC Logic 0: 0 - 0.8 VDC Input Impedance: 100 KΩ Control Activation: Positive Edge or Pos. Level based on product definition for switch usage. **Excitation Voltage** Menu Selectable: 5, 12 or 24 VDC @ 100 mA (fault protected) Data Logging

The data logger captures print list information to internal storage for approximately 1000 transactions. This information can be used for later uploading or printing. Storage format is selectable for Comma-Carriage Return or Printer formats.

Batching Features

Quick batching sequence, single or dual stage batching, slow fill, auto-batch restart and batch overrun compensation.

Serial Communication The serial port can be used for printing, data logging, modem connection and communication with a computer. RS-232: Device ID: 01-99 Baud Rates: 300, 600, 1200, 2400, 4800, 9600, 19200 Parity: None, Odd, Even Handshaking: None, Software, Hardware Print Setup: Configurable print list and formatting. Print Out: Custom form length, print headers, print list. Print Initialization: Print on end of batch, key depression, interval, time of day or remote request. RS-485: (optional 2nd COM port) Device ID: 01-247 Baud Rates: 1200, 2400, 4800, 9600, 19200 Parity: None, Odd, Even Protocol: Modbus RTU (Half Duplex) Internal Multi-protocol Communication Card Option (Network Card Option 3) Protocols: BACnet MS/TP, BACnet IP, Modbus TCP, Metasys N2, AB DF1, AB EtherNet/IP, LonWorks Relay Outputs The relay outputs are menu assignable to (Individually for each relay) Low Rate Alarm, Hi Rate Alarm, Prewarn Alarm, Preset Alarm or General purpose warning (security).

Number of relays: 2 (4 optional) Contact Style: Form C contacts

Contact Ratings: 5 amp, 240 VAC or 30 VDC

Isolated Pulse output

The isolated pulse output is assigned to Uncompensated Volume Total. Pulse Output Form: Photomos Relay Maximum On Current: 25 mA Maximum Off Voltage: 30 VDC Saturation Voltage: 1.0 VDC Maximum Off Current: 0.1 mA Pulse Duration:10 mSec or 100mSec (user selectable) Pulse output buffer: 256 Fault Protection Reverse polarity: Shunt Diode

Isolated Analog Output

The analog output is menu assignable to correspond to the Rate or Total. Type: Isolated Current Sourcing Available Ranges: 4-20 mA, 0-20 mA Resolution: 12 bit Accuracy: 0.05% FS at 20° C Update Rate: 1 update/sec minimum Temperature Drift: Less than 200 ppm/C

Maximum Load: 1000 ohms (at nominal line voltage)

Compliance Effect: Less than .05% Span

60 Hz rejection: 40 dB minimum

Calibration: Operator assisted Learn Mode

Averaging: User entry of damping constant to cause a smooth control action

Note: DC powered units are not isolated



MS811 Specifications:

(See drawing)	
Cover/Base -	Ultraguard® Fiberglass reinforced poly- ester (Color RAL 7035)
Fasteners -	304 series stainless steel
Back panel inserts -	Brass
Gasket -	Closed cell neoprene
Mounting Feet -	304 series stainless steel

Test Spec:

Construction meets NEMA/EEMAC Type 1, 2, 3, 4, 4X, 12 & 13 UL® 508 listed; Type 1, 2, 3, 3R, 4, 4X, 12, and 13 CSA-C22 No. 14; Type 1, 2, 3, 3R, 4, 4X, 12, and 13 IEC60529 Type IP66 Compliant with RoHS (Restriction of Hazardous Substances)

MDR-20-24 Specifications:

Current, Output
Dimensions
nput Voltage
Mounting Type
Number of Outputs
Operation
Output
Power, Output
Special Features

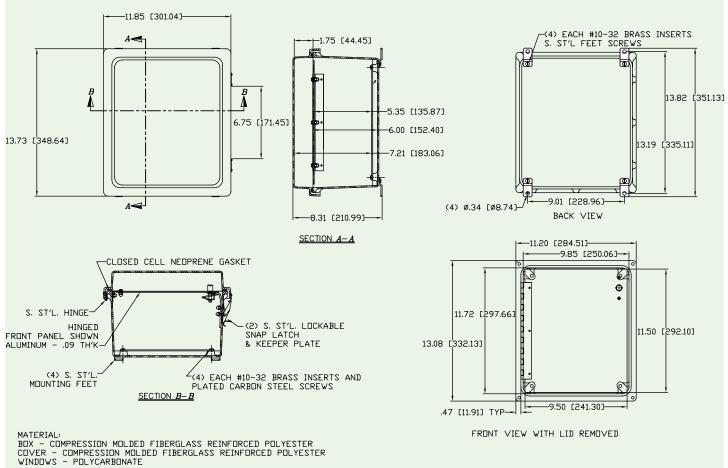
0.885 L x 3.5 W x 3.94 D In. 100-264VAC Din Rail 1 PFC 24VDC@1A 24 W 100% Full Load Burn-In Test, DC

OK Active Signal, Short Circuit and Overload and Over Voltage Protections

Features:

- Universal AC Input/Full Range
- · Protections: Short Circuit, Overload, Over Voltage
- · Cooling by Free Air Convection
- Can be Installed on DIN Rail TS-35/7.5 or 15
- NEC Class 2/LPS Compliant
- Built-In DC OK Active Signal
- LED Indicator for Power ON
- No Load Power Consumption 0.75 W
- 100% Full Load Burn-In Test

MS811 Dimensions



Panel Layout

Internal Wiring Connections with PMi190 Printer

