Options:

FLOWtrol Batch Controller

Features

- Start/Stop Buttons and Remote Inputs
- Programmable K-Factor
- Batch Total and Grand Total
- Two DPDT Relay Outputs for Two Stage Shut Off
- Pulse Input to 20 kHz Count Frequency

Description:

The FLOWtrol is a batch controller intended for use with pulse producing flowmeters. The FLOWtrol offers control outputs consisting of DPDT Relays rather than SPDT Relays. The Flowtrol may be applied in existing applications seeking to expand their batching operations with compatible units.

The FLOWtrol was the fore runner to the BATCHtrol II. However, it lacks the rate display, analog input and Easy Preset capabilities now available in the BATCHtrol II. The BATCHtrol II is recommended for all new applications.

Specifications:

Display: 8 digit, .55" high, 15 segment bright LED.

Input Power:

A) 115 VAC ±15% or 12 to 27 VDC B) 230 VAC ±15% or 12 to 27 VDC

Current: 280 mA DC max. or 5.3 VA at rated AC voltage.

Output Power: (on AC powered units only)

+12 VDC @ 100 mA and separate isolated 12 VDC @ 100 mA to allow

 \pm 12 VDC or + 24 VDC, regulated \pm 5% worst case.

Input: (count/start/stop/reset) High: 3 to 30 VDC open or <1 VDC Low: Impedance: $10 \text{ k}\Omega$ Frequency: 20 kHz max.

Inputs: Positive edge triggered, 3 µsec/61 µsec/5 msec selectable

debounce filtering.

Control Output: (preset and prewarn) DPDT relay, 5 amp, 115 or 230 VAC Temperature: 32° to 132°F (0° to 55°C) Humidity: 0 to 90% (non-condensing)

Memory: EEPROM stores all program and count data for minimum of 10

years if power is lost. Dimensions: See BATCHtrol II

1: RS232 Serial Interface

2: RS422 Serial Interface

Approvals: CE Approved, UL/CSA Pending

Ordering Information Example FLOWtrol -Operating Voltage: -A: 110 VAC ±15% or 12 to 27 VDC B: 220 VAC ±15% or 12 to 27 VDC

KEPtrol F/C Measures Net Flow of Boiler Fuel

Features

- Flow (A) Flow (B) Displays Net Rate & Net Total
- Pulse Input to 10 kHz Count Frequency
- Separate K-Factors for A and B inputs
- Set Point Alarms
- NEMA 4X/IP65 Front Panel

Description:

The KEPtrol F/C is a special version of the KEPtrol R/T designed to measure the net flow of boiler fuel. Separate K-Factors can be entered for A and B inputs. Two SPDT relay alarm outputs are standard. A scaled pulse output is standard for interfacing with remote devices. An analog output is available to interface with strip chart recorders.

Specifications:

Display: 8 digit, .55" high, 15 segment bright LED. Input Power: (Internally Fused) A) 115 VAC ±15% or 12 to 27 VDC B) 230 VAC ±15% or 12 to 27 VDC

Current: 280 mA DC max. or 5.3 VA at rated AC voltage.

Output Power: (on AC powered units only)

+12 VDC @ 100 mA and separate isolated 12 VDC @ 100 mA to allow

±12 VDC or + 24 VDC, regulated ±5% worst case. The DC Outputs are supplied with resettable fuses.

Pulse Inputs:

Thresholds: High: 3 to 30 VDC; Low: open or <1 VDC

Impedance: 10 kΩ

Frequency: 10 kHz max. (min. on/off 100 µsec.) **Control Output:** Open Collector: Sinks 250 mA max @ 30 VDC

SPDT Relay: 10 amp, 115/240 VAC or 28 VDC 32° to 132°F (0° to 55°C) Temperature:

ET: Extended Temperature -40° to 158°F (-40° to 70° C)

Accuracy: 100% over specified temperature range

Humidity: 0 to 90% (non-condensing)

Memory: EEPROM stores all data for min. of 10 years if power is lost.

Dimensions: See KEPtrol R/T

Approvals: CE Approved, UL/CSA Pending

