

CLASSIC™ 832 In-Line Flanged



Flow, Level, Interface & Temperature Switch & Transmitter

- Flanged Process Connections
- For inline mounting
- Exotic Alloys, Custom Lengths and Remote Mounted Electronics Available
- Digital Microprocessor Technology Settings configurable by user for Flow, Level, Interface & Temperature Sensing
- No Jumpers All Configurable Options are stored in Non-Volatile Memory
- FM Explosion-proof Class I, Div. 1, Groups B, C & D
- CSA/ANSI UL Flameproof Class I, Div. 1, Groups B, C & D

Display Panel & Intelligent User Interface

The KAYDEN CLASSIC 800 Series Electronics Module is designed for quick and easy setup.

All CLASSIC 800 models, regardless of the type of sensor, use the same Electronics Module.

Display Panel Indicators:

- Relay 1 & 2 Set Point 1 & 2
- Fault Alarm
- Run Mode
- Start-up Bypass Timer (for pump control)
- LED Bar Graph for Flow Rate, Level or Interface Indication

Configuration Mode Features:

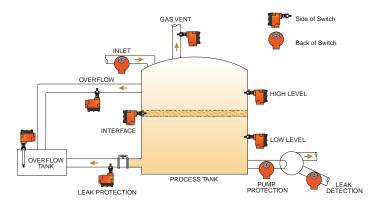
- Adjustable Sensitivity
- · Zero & Span Adjustment
- Modbus Addressable

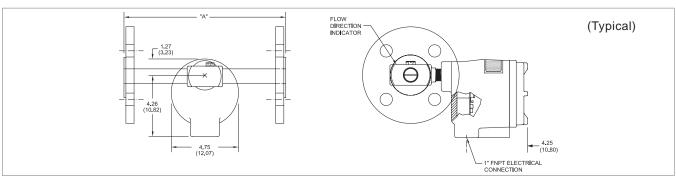
Electronics Modules Feature:

- Easy setup; no jumpers or trim pots
- Continuous Self-test Diagnostics with Fault Indicator
- Temperature Compensation

- Universal Power 12-24 VDC & 115-230 VAC standard
- Two SPDT Relays independently adjustable
- 4-20 mA Analog Output
- "Smart Heater" function for power economy and increased heater life
- Start-up Bypass Timer (for pump control)

Applications:





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Model Number Legend DOC#: ML-832-004



CLASSIC™ 800 Specifications

Applications:

Flow, Level, Interface & Temperature

Process Connections:

- 1/2", 3/4", 1", 1-1/4", 1-1/2" & 2" MNPT
- 3/4" FNPT & Flanged InLine
- Flanged & Sanitary 1" to 3.5" Tri-Clamp®
- Threaded (1" MNPT) & Flanged Retractable Packing Glands

Insertion 'U' Lengths:

Imperial:

1.2", 2", 3", 4", 6", 9", 12" & 18" standard Model 828 (Sanitary) - 2", 3", 4" & 6" only

Metric:

3, 5, 7.5, 10,15, 23, 30 & 45 cm standard Model 828 (Sanitary) - 5, 7.5, 10 & 15 cm only

• Custom Lengths:

Available in 1/2" or 1 cm increments Min. 1.2" - Max. 120" (3.0 - 305 cm) model dependant

Wetted Materials:

- · 316/316L Stainless Steel standard
- Titanium Gr. 2, Hastelloy® C-276
- 316/316L Stainless Steel c/w Nickel Braze (830 & 832 InLine Models)
- · Highly Saturated Nitrile (Pressure Seal - 814 & 816 Packing Gland Models)

Enclosure Material:

- Copper-free Aluminum (does not exceed 0.4% copper)
- Powder Coated Polyester TGIC (polyester triglycidyl isocyanurate)
- NEMA 4X / Type 4 / IP55
- 1" FNPT Conduit Connection
- · Buna O-ring on Cover

Temperature Range – Continuous Service:

Sensors:

-45°C to +200°C (-50°F to +392°F) (Models 814 & 816: -45°C to +160°C [-50°F to +320°F])

• Electronics:

-55°C to +65°C (-67°F to +149°F)

Note: For temperatures above +65°C (+149°F) electronics must be remotely mounted.

Storage:

-55°C to +75°C (-67°F to +167°F)

Operating Pressure - Sensor:

Threaded Style:

 Maximum Working Pressure: 24 MPa (3500 psig) dependent on model and material of construction

Flanged Style:

 Maximum Working Pressure: per flange rating

Sanitary Tri-Clamp[®] Style:

 Maximum Working Pressure: per flange rating

Switch / Transmitter Switch Point Range (Insertion Style - 1/2" to 2"MNPT, Flanged):

Water-based Liquids:

0.01 to 3.0 ft./sec. (0.003 to 0.9 meters/sec.)

Hydrocarbon-based Liquids:

0.01 to 5.0 ft./sec. (0.003 to 1.5 meters/sec.)

• Gases:

0.25 to 254 sfps (0.076 to 77 smps) Standard conditions: 21°C (70°F) at 14.7 psi (1 atm)

Switch / Transmitter Switch Point Range (InLine Style):

Water-based Liquids: 0.015 to 50 cc/sec.

Hydrocarbon-based Liquids:

0.033 to 110 cc/sec.

• Gases:

0.6 to 20.000 cc/sec.

Standard conditions: 21°C (70°F) at 14.7 psi (1 atm)

Accuracy:

Flow Service:

±1% set point velocity over operating range of ±28°C (±50°F)

Level Service:

±0.25 inches (±0.64 cm)



CLASSIC[™] 800 Specifications

Response Time:

Approximately 0.5 to 30 seconds

Remote Electronics Option:

- Maximum recommended cable length -200 feet (60 m)
- Cable type 24 AWG minimum twisted pairs

Heater Power:

Field adjustable to optimize performance

Input Power:

- Universal Power standard 12-24 VDC and 115-230 VAC, 50-60 Hz
- Consumption: Maximum: 6.0 watts (fully configured)

Outputs:

- 4-20 mA current loop
- Two (2) independent SPDT sealed relay contacts rated @ 4 amps resistive 230 VAC or 30 VDC Max.; individually adjustable

Start-Up Bypass Timer:

Adjustable for 0 to 100 seconds

Communications:

Modbus via RS-485

RCMS (Remote Control & Monitoring Software) Functions and Features:

- Display Panel Lock-Out
- Set Points configuration¹
- · Relay Actuation Delay Timer
 - Independently configurable for both On and Off, increasing or decreasing
 - Adjustable from 0 5,000 seconds
- Start-up Bypass Timer¹
 - Adjustable from 0 100 seconds
- Relay Mode Configuration¹
 - Energized above or below set point
- Relay Temperature Mode Configuration
- Heater Power setting¹
- Zero and Span settings¹
- Analog (4-20 mA) output configuration¹
- View and Print Graphing (Trend) function

- · Configuring settings; write to device, save to file and print
- Fault Event Log

Note: 1 Also configurable from Display Panel

Diagnostics:

- · Primary watchdog circuit monitors microprocessor parameter anomalies
- Secondary watchdog circuit monitors microprocessor health
- Heater monitored for out-of-range conditions
- Fault Mode de-energizes relay(s) and halts power to the heater

Agency Approvals:

CSA - ANSI/UL

Class I, Div. 1, Groups B, C and D; Ex d IIB + H2; AEx d IIB+H2 (Class I, Zone 1, Group IIB + H2,) T3; Enclosure Type 4 / IP55



- Single Seal Approval Per ANSI/ISA 12.27.01-2003
 - CRN

Canadian Registration Number

Registration Note: CRN approvals available. Visit telematic.com for CRN information per model and jurisdiction.

FM Approvals

Class I, Div. 1, Groups B, C and D; Class I, Zone 1, AEx d IIB+H2 T2D (Ta=75°C); T3 (Ta=65°C); Enclosure Type 4 / IP55



CRN

Canadian

Weights and Dimensions:

- 810 Threaded: 2" U length 7 lbs (3.18 kg)
- Carton Size 15" x 5" x 6" (38 cm x 13 cm x 15 cm)
- Other models/sizes consult Telematic

Warranty:

· One (1) Year from shipment date from factory (see Terms & Conditions on telematic.com for details)