

Model Number
683A000000

4-20 mA PROCESS LOOP INDICATOR/CONTROLLER

Revision: A
ECN #: 14567

ELECTRICAL

Power Supply Voltage (auto sensing)
Power Consumption
Input Signal
Sensor Excitation
Accuracy
Conversion Rate
Relay Output (dual) Individual Adjust
Time Delay on Relay Make or Break
Input Channels
Hysteresis

ENGLISH
85-265 VAC/95-370 VDC
2.5 W typ./3.5 W max.
4 to 20 mA
24 VDC
±0.05% of reading + 2 counts
5 Hz
5 A Form A SPST 230 VAC/30 VDC
0-9999 Seconds
1
Adjustable for Each Set Point

SI
85-265 VAC/95-370 VDC
2,5 W typ./3,5 W max.
4 to 20 mA
24 VDC
±0,05% of reading + 2 counts
5 Hz
5 A Form A SPST 230 VAC/30 VDC
0-9999 Seconds
1
Adjustable for Each Set Point

ENVIRONMENTAL

Temperature Coefficient
Warm Up
Operating Temperature Range
Storage Temperature Range
Relative Humidity

56 ppm/°F
<2 Minutes
+32 to +140 °F
-4 to +158 °F
<95% (non-condensing)

100 ppm/°C
<2 Minutes
0 to 60 °C
-20 to 70 °C
<95% (non-condensing)

MECHANICAL

Case Dimension:
DIN
BEZEL
Depth Behind BEZEL
- with Right Angle Connectors
- with Straight Thru Connectors
Weight
Material
Electrical Connectors

4.61 x 3.45 x 1.61 in
1/8 in
3.78 x 1.89 in
4.61 in
5.08 in
5.40 in
8.5 oz Maximum
Polycarbonate
Removable Screw Terminals

117 x 87,4 x 40,8 mm
3 mm
96 x 48 mm
117 mm
129 mm
137 mm
241 gm Maximum
Polycarbonate
Removable Screw Terminals

INDICATOR

4-Digit Red LED
Range
Polarity: Positive
Negative
Decimal Point
Positive Overrange
Negative Overrange
Set Point Status

0.56 in
-1999 to 9999 Counts
Assumed
Displays -
Selectable X•X•X•X•
Top Segments Flash
Bottom Segments Flash
One Per Set Point (4 max)

14,2 mm
-1999 to 9999 Counts
Assumed
Displays -
Selectable X•X•X•X•
Top Segments Flash
Bottom Segments Flash
One Per Set Point (4 max)

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

Sensor Input: 683AX00000

- ☐ 0 4-20 mA with 24 VDC Excitation

Power Supply: 683A0X0000

- ☐ 0 85-265 VAC/95-370 VDC
- ☐ 1 18-48 VAC/10-72 VDC

Analog Output: 683A00X000

- ☐ 0 None
- ☐ 1 Isolated 4-20 mA Retransmit @ 500 Ω Maximum

Additional Relay Output: 683A000X00

- ☐ 0 None
- ☐ 1 Dual 10 Amp Form C SPDT (Time Delay Not Available)
- ☐ 2 Dual 5 Amp Form A SPST (Time Delay Not Available)

Accessories: 683A0000XX

- ☐ 00 None
- ☐ 01 96 x 48 mm Clear Lockable Front Cover – NEMA 4X, Splash Proof
- ☐ 02 Metal Surround Case – Includes Screw Mounting Clips
- ☐ 03 Clear Lockable Front Cover and Metal Surround Case

NOTES:

- [1] Programmability:
Scale Factor, Offset, Decimal Point Location, Set Point Adjustment, Peak and Valley View with Reset, LED Brightness, Time Delay on Relay Make or Break, HI or LOW Set Point Relay Action, Relay Hysteresis.
- [2] See PCB Declaration of Conformance PS050 for details.

