LED Indicating Display Controller
for Frequency, Current, or Voltage Inputs

KOBOLD

ADI-1

Optional
Wall Mount

Optional
Pipe Mount
Bracket

- Panel Mount or Field Housing
- 270° Bargraph with 5-digit LED Digital Display
- 2 SPDT Limit Contacts
- Min/Max Memory
- Protection IP 65
- Easily User Programmable via Push Buttons
- Ratemeter & Totalizer
- Optional Sensor Supply

02/09-2015

Description

The KOBOLD ADI-1 is designed to display and process values. Frequency, current, or voltage input signals may be processed. It features both a 5-digit display and a 55 point 270° bargraph. All internal process parameters, in different configurations, can be displayed. Programming is easy, with 4 front buttons in three different programming modes. Four internal alarm parameters can be freely assigned to the 2 limit switches, to the optional analog output, or to the display elements. Basic batching functions are possible via the totalizer and alarm correlation. Various alarm and control functions can be triggered by the digital control input or by pressing a button.

Standard Functions:

- 4-Button Programming, User Scalable
- MIN/MAX Memory, HOLD Function
- Sensor Linearization, Attenuation Function, Logic Function
- Digital Control Input, Freely Allocatable
- 2 SPDT Contacts
- Ratemeter and Totalizer

Optional Functions:

- Analog Output 4-20 mA, 0-10 V_{DC}
- Sensor Supply

Technical Details: All Models

Bargraph:	55 LEDs at 270°
	Freely Scalable, Standard: 0-100%
Digital Display:	Red, LED, 5-Digits, 0.55" High
	Programmable Decimal-Point Setting
Display Range:	-19999...+19999
Display Time:	0.1-10 s, Programmable
Measuring Error:	±0.1% of Measuring Range,
	±1 Digit (Normal Signal)
	±0.05% of Measuring Range,
	±1 Digit (Frequency Signal)
Temperature Drift:	50 ppm/K

Measurement Inputs

Normal Signals: ..V:	-12...12 V_{DC} at Ri = Approx. 200 kΩ
	-22...24 mA DC at Ri = Approx. 100 Ω
	1...24 mA DC at Ri = Approx. 100 Ω
Pre-Calibrated Ranges:	0...10 V, 4...20 mA
Frequency Input ..F:	0.01 Hz...99.999 kHz

Sensor Supply

Option ..W:	24 V_{DC} ± 10%, Max. 50 mA
Option ..V:	12 V_{DC} ± 5%, Max. 20 mA
Option ..U:	5 V_{DC} ± 5%, Max. 20 mA
Digital Input:	Max. 30 V_{DC}, >10 V HIGH;
	<2.4 V LOW, Ri Approx. 5 kΩ

Power Supply

Option ..0:	100…240 V_{AC} ± 10%, 50/60 Hz, Max.15 VA
	100…240 V_{DC}, Max. 15 W
Option ..3:	18…30 V_{AC}, 50/60 Hz, Max.15 VA
	10…40 V_{DC}, 15 W
Limit Values:	2 SPDT Relay Contacts
	Max. 250 V_{AC}/5 A (Resistive Load)
	Max. 30 V_{DC}/5 A
Analog Output: (Optional)	4-20 mA (Load <360 Ω) and 0-10 V_{DC}, (Load >10 kΩ)
Output Errors:	0.1% of Full Scale
Storage Temperature:	-4...176 °F

Technical Details: Panel Mount, Option ..00

Ambient Temperature:	32…122 °F
Housing Material:	PPO, Fiber-Glass Coated
Protection:	Front IP 65, Terminal IP 00
Connection:	Pluggable Terminal Block
	Cable Cross-Section 0.1"
Weight:	Approx. 1.5 lbs

Technical Details: Field Housing, Options ..F0, ..S0, ..R0

Ambient Temperature	
Supply ..0:	-4…140 °F
Supply ..3:	-4…176 °F
Housing Material:	Aluminum (Powder Coated), PA 66
Protection:	IP 65
Mounting:	Wall or Pipe Mount
Connection:	Pluggable Terminal Block (Internal)
	Cable Glands: PG 13.5
Weight:	Approx. 3.3 lbs

Order from: **C A Briggs Company**
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118
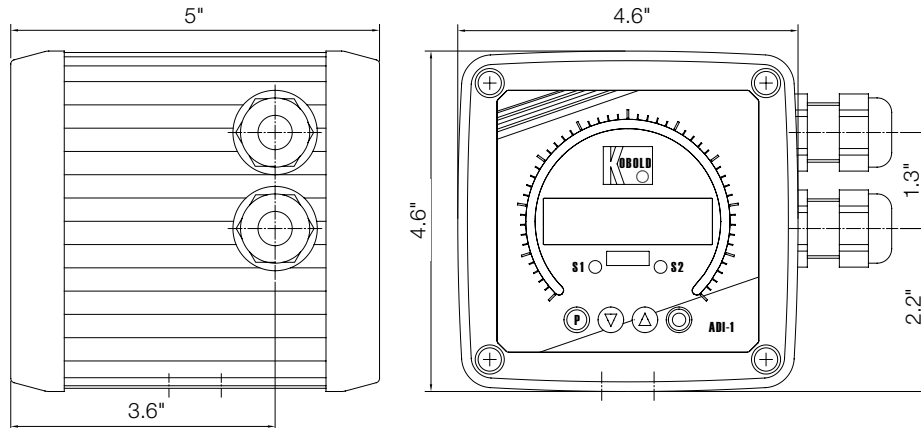Sales@cabriggs.com - www.cabriggs.com

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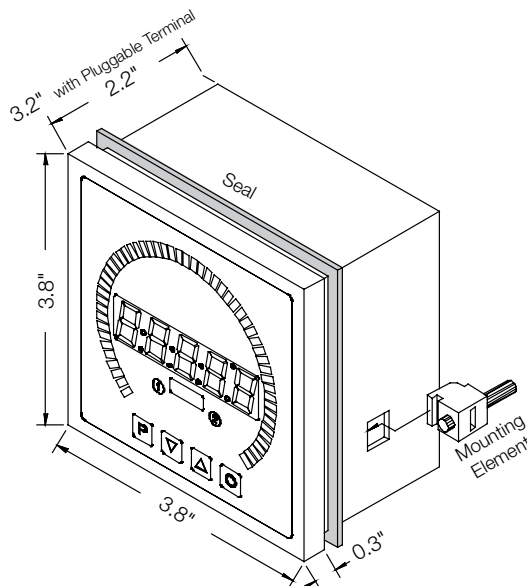
Order Details (Example: **ADI-1 V 0 0 0 2 F0**)

Model	Input	Supply (Galvanically Isolated)	Output	Sensor Supply	Contacts	Housing
ADI-1..	**..V..** = 4-20 mA 0-5 V, 0-10 V **..F..** = Frequency Input 0.01-100 kHz	**..0..** = 100…240 $V_{AC/DC}$ **..3..** = 18…30 V_{AC} 10…40 V_{DC}	**..0..** = without **..4..** = 4 - 20 mA 0 - 10V	**..0..** = without **..U..** = 5 V_{DC} **..V..** = 12 V_{DC} **..W..** = 24 V_{DC}	**..2..** = 2 SPDT Contacts	**..00** = Panel Mounting **..F0** = Field Housing **..S0** = Field Housing with Wall Mount; Rotatable **..R0** = Field Housing with Pipe Mount; for 2" Pipe

Dimensions

Field Housing

Panel Mounting

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