

Model: ADI-D...W

Model: ADI-B...F

Model: ADI-K...R



Option  
 wall mounting

Option  
 pipe bracket

- Analogue and digital display
- User scaling
- 2 limit values
- Min/max memory
- Protection IP 65
- Simple button programming
- Sensor supply



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Model:  
 ADI...F



**Description**

The new Kobold indicating unit with its modular design can be adapted to customer needs. Frequency or current/voltage standard signals may be processed as input signals. Most output signals from transducers can thus be displayed. The percentage instantaneous value of the set upper range value is indicated by the bar graph.



The input signals are digitized and processed by a state-of-the-art microprocessor. Display scaling, switching point setting, memory function and linearization function are carried out with three programming buttons, with which the settings can be changed in the three program parts. The devices are delivered in a rugged aluminium case for field mounting on site.

**The device has the following functions as standard:**

- MIN/MAX memory
- User scaling
- Sensor linearization

**Besides the standard functions the device can also be fitted with the following options:**

- 2 limit contacts
- Sensor supply

**Technical Details**

Bar graph: arrangement of 57 LEDs: round, 270°  
0-100% of full scale value

Accuracy: 1.8%

Measurement inputs:

- 0(4)- 20 mA (Ri < 200Ω),  
0-10 VDC, 0- 5 VDC (Ri > 50kΩ)
- or
- -100 to +100 mV (ΔP-sensor)
- or
- frequency input 0.5-2000 Hz  
(PNP/NPN/Namur/TTL)

Sensor supply (option): 12 VDC, 30 mA  
24 VDC/50 mA and 5 V/15 mA

Display time: 0.1 - 10 s, programmable

Data back-up: memory minimum 40 years,  
1 million programming cycles

Power supply: 230, 115, 48, 24 VAC ±10%, 50-60 Hz,  
24 VDC, ±20%

Limit values (option): 2 relay changeover contacts  
max. 115/230 VAC/5 A (resistive load)  
max. 30 VDC/5 A or  
2 open-collector outputs  
5- 50 VDC/ I<sub>total</sub>=50 mA

Temperature range: -20 to +80°C operating temperature  
-20 to +80°C storage temperature

Dimensions: 116 x 116 x 123 mm (WxHxD)

Case material: aluminium (powder coated), PA 66

Protection: IP 65

Mounting: wall and pipe mounting

Connection: pluggable terminal block (internal)

Weight: approximately 1600 g

**Order Details** (Example: ADI-BV0 0U0F)

Model	Description	Input	Supply (electrically isolated)	Output	Sensor supply	Contacts	Housing
ADI-B..	Indicating unit 96 x 96 mm with bar graph sensor linearization min/max memory	V= 0-20 mA, 4- 20 mA 0- 5 V, 0-10 V F= frequency input 0.5- 2000 Hz 4= -100 to +100 mV	0=230 VAC 1=48 VAC 2=24 VAC 3=24 VDC 4=115 VAC	0= without	0= without U= 5 VDC V= 12 VDC W=24 VDC	0= without 2= 2 changeover contacts 6= 2 open collectors	X=panel mounting F= field housing W=wall mounting mounting in 90 C steps S= wall mounting finely rotatable R=pipe mounting for 2" piping



**Description**

The new Kobold indicating unit with its modular design can be adapted to customer needs. Frequency or current/voltage standard signals may be processed as input signals. Most output signals from transducers can thus be displayed.



The percentage instantaneous value of the set upper range value is indicated by the bar graph.

The device is also fitted with a user programmable 3 1/2-segment digital display.

The input signals are digitized and processed by a state-of-the-art microprocessor. Display scaling, switching point setting, memory function and linearization function are carried out with three programming buttons. For further signal processing the indicator can be fitted with two switching outputs, an analogue output or a frequency output.

The devices are delivered in a rugged aluminium case for field mounting on site

The device has the following functions as standard:

- MIN/MAX memory
- User scaling
- Sensor linearization

Besides the standard functions the device can also be fitted with the following options:

- 2 limit contacts
- Analogue output
- Frequency output
- Sensor supply

**Technical Details**

- Bar graph: arrangement of 57 LEDs: round, 270°, 0-100% of full scale value
- Digital display: 3 1/2-segment, 14 mm high red LED display, programmable decimal-point setting
- Accuracy: bar graph 1.8%  
digital display: < 0.2%, 52 ppm/°C
- Measurement inputs:
  - 0(4)-20 mA (Ri < 200Ω), 0-10 VDC, 0-5 VDC (Ri > 50 kΩ)
  - or
  - -100 to +100 mV (ΔP-sensor)
  - or
  - frequency input 0.5-2000 Hz (PNP/NPN/Namur/TTL)
  - two frequency inputs with direction sensing to 2 kHz (PNP/NPN/Namur/TTL)
- Sensor power supply: 12 VDC, 30 mA (option) 24 VDC / 50 mA and 5 V / 15 mA
- Display time: 0.1 - 10 s, programmable
- Data back-up: memory minimum 40 years, 1 million programming cycles
- Power supply: 230, 115, 48, 24 VAC ±15%, 50-60 Hz, 24 VDC, ±20%
- Limit values: 2 relay changeover contacts (option) max. 115/230 VAC / 5 A (resistive load) max. 30 VDC / 5 A or 2 open-collector outputs 5-50 VDC / I<sub>total</sub>=50 mA
- Analogue output: 0-20 mA, 4-20 mA (load < 500Ω) and (option) 0-10 VDC, electrically isolated
- Frequency output: scalable, 0-1000 Hz (option) open collector, electrically isolated
- Temperature range: -20 to +80°C operating temperature -20 to +80°C storage temperature
- Dimensions: 116 x 116 x 123 mm (W x H x D)
- Case material: aluminium (powder coated), PA 66
- Protection: IP 65
- Mounting: wall and pipe mounting
- Connection: pluggable terminal block (internal)
- Weight: approximately 1600 g

**Order Details** (Example: ADI-KV0 F00F)

Model	Description	Input	Supply (electrically isolated)	Output	Sensor supply	Contacts	Housing
ADI-K..	Indicating unit 96 x 96 mm with bar graph and digital display sensor linearization min/max memory	V= 0-20 mA, 4-20 mA 0-5 V, 0-10 V F= frequency input 0.5-2000 Hz 2= 2 frequency inputs 4= -100 to +100 mV	0=230 VAC 1=48 VAC 2=24 VAC 3=24 VDC 4=115 VAC	0= without 1= 0-10 V 2= 0-20 mA 4= 4-20 mA F= scalable frequency output	0=without U=5 VDC V=12 VDC W=24 VDC	0= without 2= 2 changeover contacts 6= 2 open collectors	X= panel mounting F= field housing W= S= R= according order details ADI-B...X

Ordering Code for Wall and Pipe Mounting see ADI-B...F (page 20)



**Description**

The new Kobold indicating unit with its modular design can be adapted to customer needs. Frequency or current/voltage standard signals may be processed as input signals. Most output signals from transducers can thus be displayed. The measured value is displayed on a user programmable 3 1/2-segment digital display.



The input signals are digitized and processed by a state-of-the-art microprocessor. Display scaling, switching point setting, memory function and linearization function are carried out with three programming buttons. For further signal processing the indicator can be fitted with two switching outputs or an analogue output. The devices are delivered in a rugged aluminium case for field mounting on site.

The device has the following functions as standard:

- User scaling
- MIN/MAX memory
- Sensor linearization

Besides the standard functions the device can also be fitted with the following options:

- 2 limit contacts
- Analogue output
- Sensor supply

**Technical Details**

- Digital display: 3 1/2-segment, 14 mm high red LED display, programmable decimal-point setting
- Accuracy: digital display < 0.2% 52 ppm/°C
- Measurement inputs:
  - 0(4)-20 mA ( $R_i < 200\Omega$ ), 0-10 VDC, 0-5 VDC ( $R_i > 50k\Omega$ )
  - or
  - -100 to +100 mV ( $\Delta P$ -sensor)
  - or
  - frequency input 0.5-2000 Hz (PNP/NPN/Namur/TTL)
  - two frequency inputs 0.5-2000 Hz with direction sensing (PNP/NPN/Namur/TTL)
- Sensor power supply (option): 12 VDC, 30 mA; 24 VDC/50 mA and 5 V/15 mA
- Display time: 0.1 -10 s, programmable
- Data back-up: memory minimum 40 years, 1 million programming cycles
- Power supply: 230, 115, 48, 24 VAC  $\pm 10\%$ ; 50-60 Hz, 24 VDC,  $\pm 20\%$
- Limit values (option): 2 relay changeover contacts max. 115/230 VAC/5 A (resistive load) max. 30 VDC/5 A or 2 open-collector outputs 5-50 VDC/  $I_{total}=50$  mA
- Analogue output (option): 0-20 mA, 4-20 mA (load < 500 $\Omega$ ) and 0-10 VDC, electrically isolated
- Temperature range: -20 to +80°C operating temperature -20 to +80°C storage temperature
- Dimensions: 116 x 116 x 126 mm (WxHxD)
- Case material: aluminium / PA 66, powder coated
- Protection: IP 65
- Mounting: wall and pipe mounting
- Connection: pluggable terminal block (internal)
- Weight: approximately 1600 g

**Order Details** (Example: ADI-DV0 F00F)

Model	Description	Input	Supply (electrically isolated)	Output	Sensor supply	Contacts	Housing
ADI-D...	Indicating unit 96 x 96 mm with digital display sensor linearization min/max memory	V=0-20 mA, 4-20 mA 0-5 V, 0-10 V F=frequency input 0.5-2000 Hz	0=230 VAC 1=48 VAC 2=24 VAC 3=24 VDC 4=115 VAC	0= without 1= 0-10 V 2= 0-20 mA 4= 4-20 mA F= scalable frequency output	0=without U=5 VDC V=12 VDC W=24 VDC	0= without 2= 2 changeover contacts 6= 2 open collectors	X= F= W= S= R= according order details ADI-B...F

Ordering Code for Wall and Pipe Mounting see ADI-B...F (page 20)