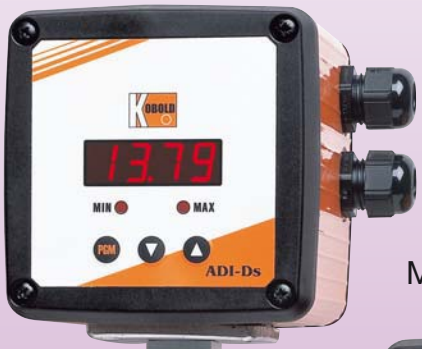
Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Universal Indicating Unit in Field Housing

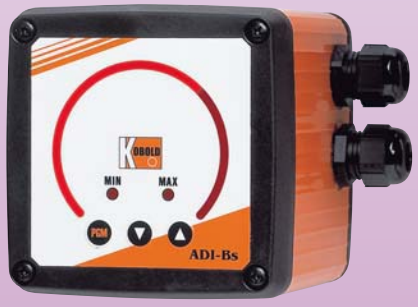
for all Inputs (Frequency, Current, Voltage)

measuring • monitoring • analysing

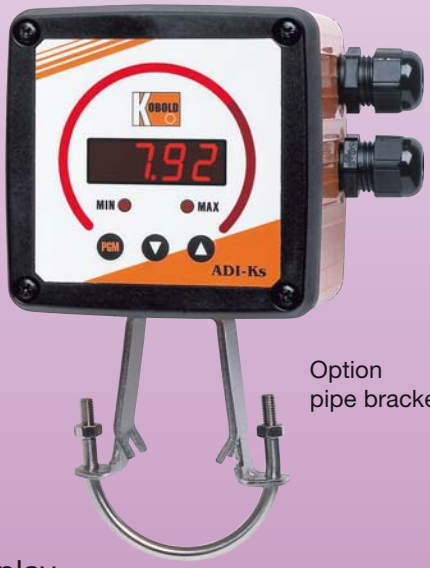
Model: ADI-D...S



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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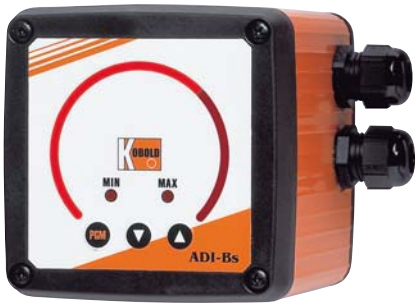
Model:
ADI...F

Description

The new modular KOBOLD indicating unit has been developed to satisfy customer requirements. Frequencies or standard current/voltage signals may be processed as input signals. Most output signals from transducers can thus be displayed. The bar graph shows the percentage instantaneous value of the set full-scale value.



The input signals are digitized and processed in a state-of-the-art µ-processor. Display scaling, switching point setting, memory function and linearization may be selected with three programming buttons.

The device has the following functions as standard:

- User scaling
- MIN/MAX memory
- 3-point sensor linearization

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

- 2 limit contacts
- Sensor supply

Technical Details

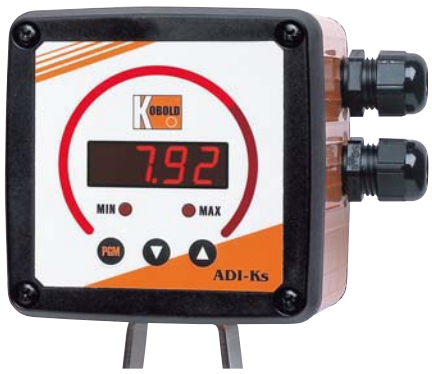
Bar graph:	arrangement of 57 LEDs: round, 270° 0-100% of full scale value
Accuracy:	1.8%
Measurement inputs:	● 0(4)-20 mA (Ri< 200 Ω), 0-10 V_{DC}, 0-5 V_{DC} (Ri>50 kΩ) or ● frequency input 0.5-2000 Hz (PNP/NPN/Namur/TTL)
Sensor supply (Option):	12 V_{DC}, 30 mA 24 V_{DC}/50 mA and 5 V/15 mA
Display time:	0.1-10 s, programmable
Data back-up:	memory minimum 40 years, 1 million programming cycles
Power supply:	230, 115, 48, 24 V_{AC} ±10%, 50-60 Hz, 24 V_{DC}, ±20%
Limit values (option):	2 relay changeover contacts max. 115/230 V_{AC} / 5 A (resistive load) max. 30 V_{DC} / 5 A or 2 open-collector outputs 5-50 V_{DC} / I_{total} = 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-B V 0 0 0 0 F**)

Model	Description	Input	Supply (electr. isolated)	Output	Sensor supply	Contacts	Housing
ADI-B..	Indicating unit 96x96 mm with bar graph 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 V_{AC} **1** = 48 V_{AC} **2** = 24 V_{AC} **3** = 24 V_{DC} **4** = 115 V_{AC}	**0**= without	**0** = without **U** = 5 V_{DC} **V** = 12 V_{DC} **W**=24 V_{DC}	**0**= without **2**= 2 change-over contacts **6**= 2 Open Collector	**F**= field housing **S**= field housing with wall mounting; finely rotatable **R**= field housing with pipe mounting; for 2" piping

Description

The new modular KOBOLD indicating unit has been developed to satisfy customer requirements. Frequencies or standard current/voltage signals may be processed as input signals. Most output signals from transducers can thus be displayed.



The bar graph shows the percentage instantaneous value of the set full-scale value. The unit is fitted with a user programmable 3½ segment digital display.
The input signals are digitized and processed in a state-of-the-art µ-processor. Display scaling, switching point setting, memory function and linearization may be selected with three programming buttons. The indicator is fitted with two switching outputs, an analogue output or a frequency output for further signal processing.

The device has the following functions as standard:

- User scaling
- MIN/MAX memory
- 8-point 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

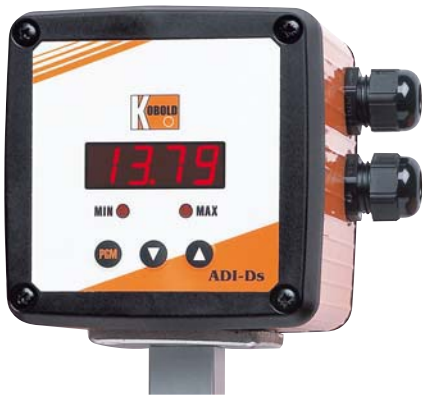
Bar graph:	arrangement of 57 LEDs: round, 270°, 0-100 % of full scale value
Digital displaye:	3½-stellige, 14 mm high red LED display, programmable decimal-point setting
Accuracy:	bar graph 1.8 % digital display: < 0.2 %, 52 ppm / °C
Measurement inputs:	● 0(4)-20 mA (Ri < 200 Ω), 0-10 V_{DC}, 0-5 V_{DC} (Ri > 50 kΩ) 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 (option):	12 V_{DC}, 30 mA 24 V_{DC} / 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 V_{AC} ±15 %, 50-60 Hz, 24 V_{DC}, ±20 %
Limit values: (option)	2 relay changeover contacts max. 115/230 V_{AC}/5 A (resistive load) max. 30 V_{DC} / 5 A or 2 open-collector outputs 5-50 V_{DC} / I_{total} = 50 mA
Analogue output: (Option)	0-20 mA, 4-20 mA (load < 500 Ω) and 0-10 V_{DC}, electrically isolated
Frequency output: (option)	scalable, 0-1000 Hz 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-K V 0 0 0 0 F**)

Model	Description	Input	Supply (electr. isolated)	Output	Sensor supply	Contacts	Housing
ADI-K..	Indicating unit 96 x 96 mm with bar graph and digital display, 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	**0** = 230 V_{AC} **1** = 48 V_{AC} **2** = 24 V_{AC} **3** = 24 V_{DC} **4** = 115 V_{AC}	**0** = without **1** = 0-10 V **2** = 0-20 mA **4** = 4-20 mA **F** = scalable frequency-output	**0** = without **U** = 5 V_{DC} **V** = 12 V_{DC} **W** = 24 V_{DC}	**0** = without **2** = 2 change-over contacts **6** = 2 Open Collector	**F** = **S** = **R** = see order details ADI-B...

Description

The new modular KOBOLD indicating unit has been developed to satisfy customer requirements. Frequencies or standard current/voltage signals may be processed as input signals. Most output signals from transducers can thus be displayed. The set measuring range is displayed with a user pro-grammable 3½-segment digital display.



The input signals are digitized and processed in a state-of-the-art µ-processor. Display scaling, switching point setting, memory function and linearization may be selected with three programming buttons. The indicator may be fitted with two switching outputs or an analogue output for further signal processing.

The device has the following functions as standard:

- User scaling
- MIN/MAX memory
- 3-point 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:	3½-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 (Ri < 200 Ω), 0-10 V_{DC}, 0-5 V_{DC} (Ri > 50 kΩ) or ● frequency input 0.5-2000 Hz (PNP/NPN/Namur/TTL)
Sensor power supply (option):	12 V_{DC}, 30 mA 24 V_{DC} / 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 V_{AC} ± 10 %; 50-60 Hz, 24 V_{DC}, ± 20 %
Limit values (option):	2 relay changeover contacts max. 115/230 V_{AC}/5 A (resistive load) max. 30 V_{DC}/5 A or 2 open-collector outputs 5-50 V_{DC} / I_{total} = 50 mA
Analogue output (option):	0-20 mA, 4-20 mA (load < 500 Ω) and 0-10 V_{DC}, electrically isolated
Temperature range:	-20 to +80 °C operating temperature -20 to +80 °C storage temperature
Dimensions:	116 x 116 x 126 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-D V 0 0 0 0 F**)

Model	Description	Input	Supply (electr. isolated)	Output	Sensor supply	Contacts	Housing
ADI-D..	Indicating unit 96 x 96 mm with digital display, 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 V_{AC} **1** = 48 V_{AC} **2** = 24 V_{AC} **3** = 24 V_{DC} **4** = 115 V_{AC}	**0** = without **1** = 0-10 V **2** = 0-20 mA **4** = 4-20 mA	**0** = without **U** = 5 V_{DC} **V** = 12 V_{DC} **W** = 24 V_{DC}	**0** = without **2** = 2 change-over contacts **6** = 2 Open Collector	**F** = **S** = **R** = see order details ADI-B...F

02 / 06-2007