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Description

The KOBOLD indication unit is used for displaying and processing of process values. Frequencies or standard current/voltage signals may be processed as input signals. Most output signals from transducers can thus be displayed. The indication is displayed via a 5 digit display and a 55 point bargraph. All internal process parameters in different configurations can thus be displayed.



All programming is done with 4 front buttons in three different programming modes. 4 internal alarm parameters can be freely assigned to the 2 limit switches, on the optional analogue output, or on the display elements. Using the corresponding totaliser and alarm correlation basic dosing functions can be realised. Various alarm and control functions can be triggered by the digital control input or by pressing a button.

The device has the following functions as standard:

- 4-button programming, user scaling
- MIN/MAX memory, HOLD function
- Sensor linearisation, attenuation function, logic function
- Digital control input, free allocable
- 2 change-over contacts
- Totaliser

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

- Analogue output 0(4) 20 mA, 0 10 V_{DC}
- Sensor supply

Technical Details

| Bargraph: | arrangement of 55 LEDs: round, 270°, free scaleable, standard: 0-100% |
|------------------|-----------------------------------------------------------------------|
| Digital display: | 5-digits, 14 mm high red LED display, programmable |
| Display range: | decimal-point setting -19999+19999 |
| Biopia, lango. | 10000111110000 |

| Display time: Measuring error: | 0.1-10 s, programmable ±0,1% of measuring range; ±1 digit (Norm signal) 0.05% of measuring range; ±1 digit (frequency signal) |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature drift: Measurement | 50 ppm/K |
| inputs: | Norm signals: ("V") -12+12 V_{DC} at Ri = approx. 200 kΩ -22+24 mA_{DC} at Ri = approx. 100 Ω 124 mA_{DC} at Ri = approx. 100 Ω Pre-calibrated ranges: 010 V; 020 mA; 420 mA or frequency input ("F"): 0.01 Hz99.999 kHz |
| Sensor supply: | option "W" 24V_{DC}±10%, max. 50mA option "V" 12V_{DC}±5%, max. 20mA option "U" 5V_{DC}±5%, max. 20mA |
| Digital input: | max. $30V_{DC}$, >10 V HIGH; <2.4 V LOW, Ri approx. 5 k Ω |
| Power supply: | Version "0" 100240 V_{AC} ± 10%, 50/60 Hz, max.15 VA 100240 V_{DC}, max. 15 W version "3" 1830 V_{AC}, 50/60 Hz, max.15 VA 1040 V_{DC}, 15 W |
| Limit values: | 2 relay changeover contacts max. 250 $V_{AC}/5$ A (resistive load) max. 30 $V_{DC}/5$ A |
| Analogue output: (Option) | 0 - 20 mA, 4-20 mA (load < 360 $\Omega)$ and 0 - 10 $V_{\rm DC}$ (load > 10 $k\Omega)$ |
| Output errors: Storage | 0.1% of full scale |
| temperature: Ambiant | -20+80 °C |
| temperature: | 0+50°C |
| Housing material: | Noryl, glass fibre coated |
| Protection: | front IP65, terminal IP00 |
| Connection: | pluggable terminal block |
| Weight: | cable cross-section 2.5 mm ² approx. 700 g |

Order Details (Example: ADI-1 V 0 0 0 20 0)

| Model | Description | Input | Supply (galvanically isolated) | Output | Sensor supply | Contacts | Housing | Special |
|-------|--------------------------------------------|---------------|-----------------------------------|-------------------|---------------------------------------------------------------------|-----------------------------------|-----------------------------|-----------------------------------------------------------------------|
| ADI-1 | with bargraph display, linearisation | 0-5 V, 0-10 V | 3 = 1830 V _{AC} | 4 = 0(4) - 20 mA | $0 = \text{without}$ $U = 5 V_{DC}$ $V = 12 V_{DC}$ $W = 24 V_{DC}$ | 2 = 2 change- over contacts | 0 = installation housing | 0 = without Y = special (please specify in clear text) |

1/02-2016

Display time:



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Technical Details

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| Digital display: | 5-digits, 14 mm high red LED display, programmable |
| Display range: | decimal-point setting -19999+19999 |

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

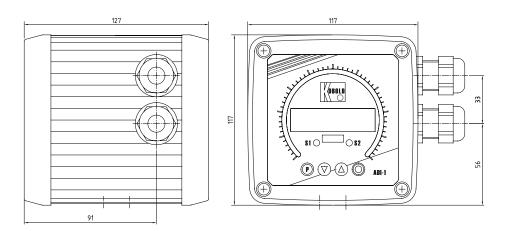
| -00 | Display time. | 0.1 10 3, programmable |
|--------------------------------------|------------------------------|---------------------------------------------------------------------------------------------|
| ge | Measuring error: | $\pm 0,1$ % of measuring range; |
| als | | ± 1 digit (Norm signal) |
| is- | | 0,05% of measuring range; |
| nal is- | - | ± 1 digit (frequency signal) |
| 13- | Temperature drift: | 50 ppm/K |
| | Measurement | |
| | inputs: | norm signals: ("V") |
| | | $-12+12 V_{DC}$ at Ri = approx. 200 k Ω |
| | | -22+24 mA _{DC} at Ri = approx. 100 Ω 124 mA _{DC} at Ri = approx. 100 Ω |
| | | pre-calibrated ranges: |
| | | 010 V; 020 mA; 420 mA |
| | | Or |
| | | frequency input ("F"): |
| ent ely ut, nd us rol | | 0.01 Hz 99.999 kHz |
| | Sensor supply: | • option "W" $24V_{DC} \pm 10\%$, 50 mA max. |
| | | • option "V" $12V_{DC} \pm 5\%$, 20 mA max. |
| | D | • option "U" $5V_{DC} \pm 5\%$, 20 mA max. |
| | Digital input: | max. $30V_{DC}$, > 10 V HIGH; |
| | Douver everby | <2.4 V LOW, Ri approx. 5 k Ω |
| | Power supply: | version "0" 100240 V _{AC} ±10%, 50/60 Hz, |
| | | max.15 VA |
| rol | | 100240 V _{DC} , max. 15 W |
| | | • version "3" |
| | | 1830 V _{AC} , 50/60 Hz, max.15 VA |
| | | 1040 V _{DC} , 15 W |
| | Limit values: | 2 relay changeover contacts |
| | | max. 250 V_{AC} /5 A (resistive load) |
| | | max. $30 V_{DC} / 5 A$ |
| | Analogue output: (Option) | 0 - 20 mA, 4-20 mA (load < 360 Ω) und 0 - 10 V _{DC} , (load > 10 kΩ) |
| | Output errors: | 0.1% of full scale |
| so | Storage | |
| | temperature: | -20+80°C |
| | Ambiant | |
| | temperature: | supply ("0"): -20 +60 °C |
| | | supply ("3"): -20 +80 °C |
| | Housing material: | aluminum (powder coated), PA 66 |
| | Protection: | IP 65 |
| | Mounting: | wall and pipe mounting |
| | Connection: | pluggable terminal block (internal) |
| | | cable glands: PG 13,5 |
| | Weight: | approx. 1500 g |
| | | |

0.1-10 s, programmable

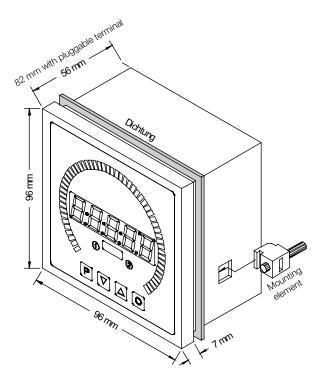
| Model | Description | Input | Supply (electr. isolated)) | Output | Sensor supply | Contacts | Housing | Special |
|-------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ADI-1 | Indicating unit with bargraph display, linearisation, min/max memory 2 change- over contacts | V = 0-20 mA, 4-20 mA 0-5 V, 0-10 V F = Frequency input 0,01-100 kHz | 0 = 100240 V _{AC/DC} 3 = 1830 V _{AC} 1040 V _{DC} | 4 = 0(4) - 20 mA | $0 = without$ $U = 5 V_{DC}$ $V = 12 V_{DC}$ $W = 24 V_{DC}$ | 2 = 2 change- over contacts | F = field housing S = field housing with wall mounting; finely rotatable R = field housing with pipe mounting; for 2" piping | 0 = without Y = special (please specify in clear text) |



Dimensions Field Housing



Panel Mounting



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