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

Processor-Based Digital Indicating Units

with Limit Switches and Analogue Output

KOBOLD

measuring • monitoring • analysing

Model DAG-1...
48x24 mm

Model DAG-2...
72x36 mm

Model DAG-3...
96x24 mm

Model DAG-4...
96x48 mm

- Analogue and programmable indicating units
- 96x48; 96x24; 72x36; 48x24 mm
- Input: temperature, current, voltage, frequency
- Analogue output, contacts, min./max. memory

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Model:
DAG...

Description

Processor-based digital indicating units for measuring frequency, temperature, current and voltage. The measured input is calibrated at the factory. The scale of the unit may be altered with replaceable labels.

The following parameters may be set by the customer from a tactile keypad:

- Desired indicated value and offset
- Position of point, display time, measurement frequency
- Full scale value and offset of analogue output
- Switch point, hysteresis, closed-circuit current/load current

The units may be provided with the following:

- Two changeover contacts
- Min./max. memory (not for frequency)
- Output: 0-20 mA, 4-20 mA, 0-10 V (optional)
- Sensor supply (optional for current input, voltage input, or frequency input)
- **Sensor Supply (optional)**

  In order to supply the connected transmitter with current or voltage output, the units may be delivered with an additional sensor supply. Please note that digital displays must be supplied with at least 20 V_{DC}.
- **Pluggable Terminals (optional)**

  To facilitate the installation and dismantling of the units, pluggable connection terminals may be supplied as an option. Pluggable terminals should not be used on units with a temperature measurement input because of increased contact resistance.

Technical Specifications

Display:	7-segment red LED, 14 mm high
Accuracy:	Pt100 (-100.0 to +600.0 °C) ±0.2 °C, ±1 digit, resolution: 0.1 °C Thermocouples: ±1 °C, ±1 digit Resolution: 1 °C, Frequency: ±0.04 % of display, ±1 digit Resolution: 0 to 9999 Current, voltage: ±0.2 % of measured value, ±1 digit
Display time:	0.2-10 seconds, adjustable
Power input:	5 VA (max.)
Max. temperature:	0 to +60 °C operating, -20 to +80 °C storage
Case material:	ABS-BLEND, colour black
Mounting:	Latching snap-on fixing
Protection type:	Standard: front IP 40, terminal IP 00 Option: front IP 65, terminal IP 00
Load:	0(4)-20 mA - 500 Ω
Relay:	2 changeover contacts max. 230 V_{AC} / 2 A-120 V_{DC} / 0.5 A
Dimensions:	96 x 48 x 131 mm (W x H x D) 96 x 48 x 148 with pluggable option
Cut-out dimension:	92 x 45 mm
Weight:	approx. 0.45 kg

Oder Details (Example **DAG-42 2 0 0 0 2M**)

14 mm Display	Input	Model	Supply	Output	Sensor supply for current/voltage input only	Options pluggable terminal not for temperature input	Contacts / memory
4-digit	Pt100/2-wire (-100.0 to +600.0 °C) Pt100/2+3-wire (-100.0 to +600.0 °C) Pt100/4-wire (-100.0 to +600.0 °C) NiCr-Ni (-250 to +1350 °C) Fe-CuNi (USA) -200 to +1200 °C) Fe-CuNi (DIN) -100 to +900 °C) 0(4)-20 mA, 0-10 V_{DC}	**DAG-42..** **DAG-44..** **DAG-45..** **DAG-4K..** **DAG-4J..** **DAG-4L..** **DAG-4V..**	**2** = 20-30 V_{DC} electrically isolated **4** = 115 V_{AC} **0** = 230 V_{AC}	**0** = without **1** = 0-20 mA **4** = 4-20 mA **6** = 0-10 V_{DC}	**0** = without **V** = 10 V_{DC}/ 20 mA **W** = 24 V_{DC}/ 50 mA	**0** = standard **S** = IP 65 **K** = IP 40/ terminal pluggable **L** = IP 65/ terminal pluggable	**2M** = 2 changeover contacts Min/Max.-memory incl.
4-digit	1 Hz to 500 kHz	**DAG-4F..**	**2** = 20-30 V_{DC} electrically isolated **4** = 115 V_{AC} **0** = 230 V_{AC}	**0** = without **1** = 0-20 mA **4** = 4-20 mA **6** = 0-10 V_{DC}	**0** = without **V** = 10 V_{DC}/ 20 mA **W** = 24 V_{DC}/ 50 mA	**0** = standard **S** = IP 65 **K** = IP 40/ terminal pluggable **L** = IP 65/ terminal pluggable	**20** = 2 changeover contacts

For other Indicating Units please refer to our brochure "Z2"