



Model DAG-1...
 48x24 mm

Model DAG-2...
 72x36 mm

Model DAG-3...
 96x24 mm

Model DAG-4...
 96x48 mm

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



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Model:
 DAG...

Processor-Based Digital Indicating Units

96 x 48 mm Model DAG-D...



Description

Price competitive and reliable digital indicating units for measurement of temperature, current and voltage. As option the units can be supplied with analogue output and an additional sensor supply. The units can be delivered with a factory calibration. In case of models with current or voltage input the decimal point and digits before the decimal point can be determined with help of jumpers. The display can be adapted with help of a potentiometer whereas the dimension with replaceable labels.

● 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 VDC (galvanic separated version) or 26 VDC (not galvanic separated version).

● Galvanic separated version (optional)

The voltage supply is galvanic separated from measured input and analogue output. The measured inputs are not galvanic separated from the analogue output. Because by all measurement methods errors may occur because of earth currents, only units with galvanic separation should be used when possible.

● 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 3 1/2-segment (1999 digit) or 4 1/2-segment (19999 digit)
Accuracy:	Pt100 (-50..+199.9°C) ± 0.2°C, ± 0.5°C Resolution: 0.1°C Pt100 (-100..+600°C) ± 1°C Thermocouples: ± 1% of m. value ± 1 digit Resolution: 1°C, Current, voltage: ± 0.1% of measured value ± 1 digit
Measuring rate:	1 measurement per second
Power input:	approx. 5 VA (Input current, voltage) approx. 2 VA (PT 100) approx. 4 VA (Thermocouples)
Max. temperature:	0 to +60°C operating, -20 to +80°C storage
Case material:	PC/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
Dimensions:	96 x 48 x 135 mm (W x H x D) 96 x 48 x 148 with pluggable option
Cut-out dimensions:	92 x 45 mm
Weight:	approx. 0.35 kg

Order Details (Example: DAG-D101 00S0)

14 mm display	Input	Model	Supply	Output	Sensor supply for current/voltage input only	Options Pluggable terminal not for temperature input
3 1/2-digit	Pt100/2-wire (-50.0 to +199.9°C) Pt100/2-wire (-100 to +600.0°C) Pt100/2+3-wire (-50.0 to +199.9°C) Pt100/2+3-wire (-100 to +600°C) NiCr-Ni (-100 to +800°C) Fe-CuNi (USA) -50 to +500°C Fe-CuNi (DIN) -50 to +500°C 0(4)-20 mA, 0-200 mA and 0-10, 50, 200, 600 VDC	DAG-D1 DAG-D2 DAG-D3 DAG-D4 DAG-DK DAG-DJ DAG-DL DAG-DV	0 = 115/230 VDC 1 = 18-30 VDC 2 = 18-30 VDC electrically isolated	0 = without 1 = 0-20 mA 4 = 4-20 mA 6 = 0-10VDC	0 = without V = 10 VDC/ 20 mA W = 24 VDC/ 50 mA	000 = standard 0S0 = IP 65, Poti back 0K0 = terminal pluggable 0L0 = IP 65/ terminal pluggable
	4-digit	0(4)-20 mA, 0-200 mA and 0-10, 50, 200, 600 VDC	DAG-HV		0 = without	

Processor-Based Digital Indicating Units

96 x 48 mm Model DAG-4...



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 VDC.
- **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 ohm
Relay:	2 changeover contacts max. 230 VAC/2A-120 VDC/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 dimens.:	92 x 45 mm
Weight:	approx. 0.45 kg

Order Details (Example: DAG 4V00 VS2M)

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 VDC	DAG-42.. DAG-44.. DAG-45.. DAG-4K.. DAG-4J.. DAG-4L.. DAG-4V..	2 = 20-30 VDC electrically isolated 4 = 115 VAC 0 = 230 VAC	0= without 1= 0-20 mA 4= 4-20 mA 6= 0-10VDC	0 = without V = 10 VDC/20 mA W= 24 VDC/50 mA	0= standard S= IP 65, K= IP 40/ terminal pluggable L= IP 65/ terminal pluggable	2M= 2 change-over contacts incl. min./max. memory
4-digit	1Hz to 500 kHz	DAG-4F..	2 = 20-30 VDC electrically isolated 4 = 115 VAC 0 = 230 VAC	0= without 1= 0-20 mA 4= 4-20 mA 6= 0-10VDC	0 = without V = 10 VDC/20 mA W= 24 VDC/50 mA	0= standard S= IP 65, K= IP 40/ terminal pluggable L= IP 65/ terminal pluggable	2 = 2 change-over contacts

Processor-Based Digital Indicating Units

96 x 24 mm Model DAG-3...



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 VDC.

● 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 54, terminal IP 00
Load:	0(4)-20 mA-500 ohm
Relay:	2 changeover contacts max. 230 VAC/2A-120 VDC/0.5 A
Dimensions:	96 x 24 x 131 mm (W x H x D) 96 x 24 x 148 with pluggable option
Cut-out dimensions:	92 x 22 mm

Order Details (Example: DAG 3V00 VS2M)

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 °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 VDC	DAG-32.. DAG-34.. DAG-35.. DAG-3K.. DAG-3J.. DAG-3L.. DAG-3V..	2= 20-30 VDC electrically isolated 4= 115 VAC 0= 230 VAC	0=without 1=0-20 mA 4=4-20 mA 6=0-10VDC	0= without V= 10 VDC /20 mA W=24 VDC /50 mA	0= standard S= IP 54, K= IP 40/ terminal pluggable L= IP 54/ terminal pluggable	2M=2 changeover contacts incl. min./max. memory
4-digit	1Hz to 500 kHz	DAG-3F..	2= 20-30 VDC electrically isolated 4= 115 VAC 0= 230 VAC	0=without 1=0-20 mA 4=4-20 mA 6=0-10VDC	0= without V= 10 VDC /20 mA W=24 VDC /50 mA	0= standard S= IP 54, K= IP 40/ terminal pluggable L= IP 54/ terminal pluggable	20=2 changeover contacts

Processor-Based Digital Indicating Units

72 x 36 mm Model DAG-2...



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, steady state current/load current

The units may be provided with the following:

- 1 open collector /1 changeover contact (for units without analogue output)
- Min./max. memory (not for frequency)
- Output: 0-20 mA, 4-20 mA, 0-10 V (optional)

● Sensor Supply

Not available

● 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:	3 VA (max.)
Max. temperature:	0 to +60°C operating, -20 to +80°C storage
Case material:	PC/ABS-BLEND, colour black
Mounting:	Latching snap-on fixing
Protection type:	Standard: front IP 40, terminal IP 00 Option: front IP 54, terminal IP 00
Load:	0(4)-20 mA-500 ohm
Relay:	1 changeover contact max. 230 VAC/2A-120 VDC/0.5 A
Open Collector:	UB=5-40 VDC/Imax=100 mA, PNP (supply by customer) (units without analogue output)
Dimensions:	72 x 36 x 97 mm (W x H x D) 72 x 36 x 115 with pluggable option
Cut-out dimensions:	68 x 33 mm
Weight:	approx. 0.19 kg

Order Details (Example DAG 2V00 0LSM)

14 mm display	Input	Model	Supply	Output	Options	Contacts/ memory
4-digit	Pt100/2-wire (-100 to +600°C) Pt100/2+3-wire (-100 to +600°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 VDC	DAG-22.. DAG-24.. DAG-2K.. DAG-2J.. DAG-2L.. DAG-2V..	0 = 230 VAC 2 = 20-30 VDC electrically isolated 4 = 115 VAC	00 =without 10 =0-20 mA 40 =4-20 mA 60 =0-10VDC	0 = standard S = IP 65, K = IP 40/ terminal pluggable L = IP 65/ terminal pluggable	5M = 1 open collector/ 1 changeover c. min/max.- memory incl. (units without analogue output) 5M = 1 changeover c. min/max.- memoryr (units with analogue output)
4-digit	1 Hz to 500kHz	DAG-2F..	0 = 230 VAC 2 = 20-30 VDC electrically isolated 4 = 115 VAC	00 =without 10 =0-20 mA 40 =4-20 mA 60 =0-10VDC	0 = standard S = IP 54, K = IP 40/ terminal pluggable L = IP 65/ terminal pluggable	50 = 1 changeover c. (units without analogue output) 10 = 1 changeover c. (units with analogue output)

Processor-Based Digital Indicating Units

48 x 24 mm Model DAG-1...



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:

- 2 open collectors /1 changeover contact (for units without analogue output)
- Min./max. memory (not for frequency)
- Output: 0-20 mA, 4-20 mA, 0-10 V (optional)

- **Sensor Supply**
not available

● 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, 10 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 54, terminal IP 00
Load:	0(4)-20 mA-500 ohm
Relay:	1 changeover contact (with analogue output) max. 230 VAC/2A-120 VDC/0.5 A
Open Collector:	UB=5-40 VDC/Imax=100 mA, PNP (supply by customer)
Dimensions:	48 x 24 x 90 mm (W x H x D) 48 x 24 x 101 with pluggable option
Cut-out dimensions:	45 x 22.2 mm

Order Details (Example: DAG 1V20 006M)

10 mm display	Input	Model	Supply	Output	Options	Contacts/memory
4-digit	Pt100/2-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 VDC	DAG-12.. DAG-1K.. DAG-1J.. DAG-1L.. DAG-1V..	2 = 20-30 VDC electrically isolated	00= without 10= 0-20 mA 40= 4-20 mA 60= 0-10VDC	0= standard S= IP 54, K= IP 40/ terminal pluggable L= IP 54/ terminal pluggable	6M= 2 open collectors min./max. memory incl. (units without analogue output) 0M= without contacts min./max. memory incl. (units with analogue output)
4-digit	1 Hz to 500 kHz	DAG-1F..	2 = 20-30 VDC electrically isolated	00= without 10= 0-20 mA 40= 4-20 mA 60= 0-10VDC	0= standard S= IP 54, K= IP 40/ terminal pluggable L= IP 54/ terminal pluggable	60= 2 open collectors (units without analogue output) 00= without contacts (units with analogue output)