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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 $V_{\rm DC}$ (galvanic separated version) or 26 $V_{\rm DC}$ (not galvanic separated version).

Galvanic separated version (optionial)

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 Details

Display:	7-segment red LED, 14 mm high
	3 ½-segment (1999 digit) or
	4 ½-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: $\pm 1\%$ of m. value ± 1 digit Resolution: $1\degree$ C,
	Current, voltage: $\pm 0.1\%$ 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

Display 14 mm	Input	Model	Supply	Output	Sensor supply for current/voltage input only	Options Pluggable terminal not for temperature input
3½-digit	Pt100/2-wire (-50+199.9°C) Pt100/2-wire (-100+600°C) Pt100/2+3-wire (-50+199.9°C) Pt100/2+3-wire (-100+600°C) NiCr-Ni (-100+800°C) Fe-CuNi (USA) -50+500°C) Fe-CuNi (DIN) -50+500°C) 0(4)-20 mA, 0-200 mA and 0-10, 50, 200, 600 V _{DC}	DAG-D1 DAG-D2 DAG-D3 DAG-D4 DAG-DK DAG-DJ DAG-DL DAG-DV	0= 115/230 V _{AC} 1= 18-30 V _{DC} 2= 18-30 V _{DC} electrically isolated	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	000=standard S00=IP 65, Poti back K00=terminal pluggable L00=IP 65/ terminal
4½-digit	0(4)-20 mA, 0-200 mA and 0-10, 50, 200, 600 V _{DC}	DAG-HV		0 = without		pluggable

Order Details (Example: DAG-D1 0 0 0 000)



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 $\rm V_{\rm DC}.$

Pluggable Terminals (optional)

Order Details (Example DAG-42 2 0 0 0 2M)

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 Details

Display:	7-segment red LED, 14 mm high
Accuracy:	Pt 100 (-100+600 °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: $\pm 0.2\%$ 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, colour black
Mounting:	latching snap-on fixing
Protection type:	Standard: front IP 40, terminal IP 00 Option: front IP 65, terminal IP 00
Output/load:	0(4)-20 mA / 500 Ω
Relay:	2 changeover contacts max. 230 $V_{AC}/2A$ -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 dimensions:	92 x 45 mm
Weight:	approx. 0.45 kg

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



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 $\rm V_{\rm DC}.$

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.

Order Details (Example: DAG-32 0 0 0 0 2M)



Technical Details

7-segment red LED, 14 mm high
Pt100 (-100.0 to $+600.0$ °C) ± 0.2 °C, ± 1 digit, resolution: 0.1 °C Thermocouples: 1 °C, Frequency: ± 0.04 % of display, ± 1 digit Resolution: 0 to 9999 Current, voltage: ± 0.2 % of measured value, ± 1 digit
0.2-10 seconds, adjustable
5 VA (max.)
0 to +60 °C operating, -20 to +80 °C storage
ABS, colour black
latching snap-on fixing
Standard: front IP 40, terminal IP 00 Option: front IP 65, terminal IP 00
0(4)-20 mA / 500 Ω
2 changeover contacts max. 230 $V_{AC}/2$ A-120 $V_{DC}/0.5$ A
96 x 24 x 131 mm (W x H x D) 96 x 24 x 148 with pluggable option
92 x 22 mm
approx. 0.29 kg

Display 14 mm	Input	Model	Supply	Output	Sensor supply for current/vol- tage input only	Options Pluggable terminal, not for temperature input	Contacts/ memory
4-digit	Pt 100/2-wire (-100.0+600.0 °C) Pt 100/2+3-wire (-100.0+600.0 °C) Pt 100/4-wire (-100.0+600.0 °C) NiCr-Ni (-250+1350 °C) Fe-CuNi (USA) -200+1200 °C) Fe-CuNi (DIN) -100+900 °C) 0(4)-20 mA, 0-10 V _{DC}	DAG-32 DAG-34 DAG-35 DAG-3K DAG-3J DAG-3L DAG-3V	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 change- over contacts incl. min/max memory
4-digit	1 Hz500 kHz	DAG-3F.	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}	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 change- over contacts

No responsibility taken for errors;

subject to change without prior notice.



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 Details

Display: Accuracy:	7-segment red LED, 14 mm high Pt 100 (-100.0 to +600.0 °C) \pm 0.2 % of measured value, \pm 1 digit, Resolution: 0.1 °C Thermocouples: \pm 1 °C, \pm 1 digit Resolution: 1 °C, Frequency: \pm 0.04 % of display Resolution: 0 to 9999 Current, voltage: \pm 0.2 % of measured value \pm 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:	Standard: front IP 40, terminal IP 00 Option: front IP 65, terminal IP 00
Output/load:	0(4)-20 mA / 500 Ω
Relay:	1 changeover contact max. 230 V _{AC} / 2 A-120 V _{DC} / 0.5 A
Open collector:	$U_B = 5-40 V_{DC} / I_{max} = 100 \text{ mA}, \text{PNP}$ (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-22 0 00 0 5M)

Display 14 mm	Input	Model	Supply	Output	Options	Contacts / memory
4- digit	Pt100/2-wire (-100.0+600.0°C) Pt100/2+3-wire (-100.0+600.0°C) NiCr-Ni (-250+1350°C) Fe-CuNi (USA) -200+1200°C) Fe-CuNi (DIN) -100+900°C) 0(4)-20 mA, 0-10 V _{DC}	DAG-22 DAG-24 DAG-2K DAG-2J DAG-2L DAG-2V	0= 230 V _{AC} 2= 20-30 V _{DC} electrically isolated 4= 115 V _{AC}	00 = without 10 =0-20 mA 40 =4-20 mA 60 =0-10 V _{DC}	0= standard S=IP 65 K=IP 40/ terminal pluggable L= IP 65/ terminal pluggable	 5M=1 open collector/ 1 changeover cont. min/maxmemory incl. (units without analogue output) 1M=1 changeover cont. min/maxmemory (units with analogue output)
4-digit	1 Hz500 kHz	DAG-2F.	0= 230 V _{AC} 2= 20-30 V _{DC} electrically isolated 4= 115 V _{AC}	00 =without 10 =0-20 mA 40 =4-20 mA 60 =0-10 V _{DC}	0= standard S= IP 65 K= IP 40/ terminal pluggable L= IP 65/ terminal pluggable	 50= 1 open collector/ 1 changeover cont. (units without analogue output) 10= 1 changeover cont. (units with analogue output)



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 (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

To facilitate the installation and dismantling of the units, pluggable connection terminals are supplied.



Technical Details

Iconnical Details	
Display:	7-segment red LED, 10 mm high
Accuracy:	Pt 100 (-100.0 to +600.0 °C) \pm 0.2 % of meas. value, \pm 1 digit, Resolution: 0.1 °C Thermocouples: \pm 1 °C, \pm 1 digit Resolution: 1 °C, Frequency: \pm 0.04 % of display Resolution: 0 to 9999 Current, voltage: \pm 0.2 % of measured value, \pm 1 digit
Display time:	0.2-10 seconds, adjustable
Power input:	5 VA (max.)
Max. temperature:	0+60°C operating, -20+80°C storage
Case material:	PC/ABS-Blend, colour black
Mounting:	latching snap-on fixing
Protection:	Standard: front IP 40, terminal IP 00 Option: front IP 65, terminal IP 00
Output/load:	0(4)-20 mA / 500 Ω
Open collector:	$U_B = 5-40 V_{DC} / I_{max} = 100 mA, PNP$ (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
Weight:	approx. 75 g

Order Details (Example:DAG-12 2 00 K 6M)

Display 10 mm	Input	Model	Supply	Output	Options	Contacts / memory
4-digit	Pt100/2-wire (-100.0+600.0°C) NiCr-Ni (-250+1350°C) Fe-CuNi (USA) -200+1200°C) Fe-CuNi (DIN) -100+900°C) 0(4)-20 mA, 0-10 V _{DC}	DAG-12 DAG-1K DAG-1J DAG-1L DAG-1V	2=20-30 V _{DC} electrically isolated	00 =without 10 =0-20 mA 40 =4-20 mA 60 =0-10 V _{DC}	K=IP 40/ terminal pluggable L=IP 65/ terminal pluggable	 6M=2 open collectors min/maxmemory incl. (units without analogue output) 0M=without contacts min/maxmemory incl. (units with analogue output)
4-digit	1 Hz500 kHz	DAG-1F	2 = 20-30 V _{DC} electrically isolated	00 =without 10 =0-20 mA 40 =4-20 mA 60 =0-10 V _{DC}	K= IP 40/ terminal pluggable L= IP 65/ terminal pluggable	 60= 2 open collectors (units without analogue output) 00= without contacts (units with analogue output)