

Alarm Unit DG 3200

Control And Monitor Standard Signals

With the Alarm Unit DG 3200 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

The Alarm Unit DG 3200 is used to monitor limit values and regulate simple automation processes in 0(4) ... 20 mA and 0 ... 10 V standard signal circuits. High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

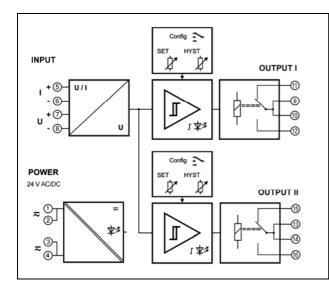
Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

Protective Separation and the 24 V AC/DC power supply make the DG 3200 universally applicable for all measurement and industrial applications, as well as for building automation.

- Easy selection of operating mode MIN / MAX alarm switch selectable, switch point and hysteresis adjustable on front panel
- Relay with high power handling SPDT relay with 6 A current switch capability
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- **Protective Separation acc. to EN 50178** Protects service personnel and downstream devices against impermissibly high voltage
- High reliability and long-term stability No maintenance costs
- Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
- 5 Years Warranty





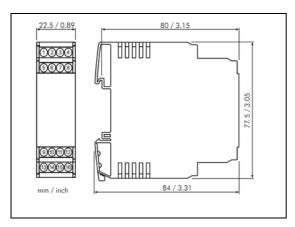




Input						
Input signal	0(4) 20 mA ± 20 mA 0 10 V ± 10 V					
Input resistance	Current input ca. 5 Ω					
	Voltage input ca. 1 MΩ					
Overload	Current input ≤ 200 mA					
	Voltage input ≤ 250 V					
Set point range	0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable					
Hystersis	0 60 % of final value with 12-turn potentiometer					
Output						
Contact type	2 SPDT relays, mode of operation switchable					
Switching capability	250 V AC/DC, max. 6 A, max. 1500 VA					
Switch state indicator	Yellow LED					
Response time	Approx. 20 ms					
General Data						
Set point error	0.2 % of final value					
Temperature coefficient ¹⁾	150 ppm/K of final value					
Test voltage	4 kV, 50 Hz, input against power supply against relay					
	2.5 kV, 50 Hz, relay I against relay II					
Working voltage (Basic Insulation) ²⁾	Up to 600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 50178 between					
	input, power supply and relay outputs. Up to 300 V AC/D between both relay outputs.					
Protection against electrical shock ²⁾	Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for					
	overvoltage category II and pollution degree 2 between input, power supply and relay outputs.					
Power supply	24 V AC/DC, ± 15 % AC 48 62 Hz, approx. 2 VA					
	DC approx. 1 W					
Ambient temperature	Operation $-20 \text{ to } + 60 \text{ °C}$ $(-4 \text{ to } +140 \text{ °F})$					
	Transport and storage - 35 to + 85 °C (-31 to +185 °F)					
EMC ³⁾	EN 61326 -1					
Construction	22.5 mm housing, protection class: IP 20					
Weight 1) Average TC in specified operating temperature range	Approx. 100 g					

1) Average TC in specified operating temperature range
2) As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
3) Minor deviations possible during interference

Dimensions



Product line

Devices	Order No.
Alarm Unit	DG 3200





Current Measuring Contactor DG 3300

Monitoring of 1/5 A AC/DC Current

With the Current Measuring Contactor DG 3300 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

The Current Measuring Contactor DG 3300 is used to monitor limit values of 0 ... 1/5 A AC/DC current circuits. High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

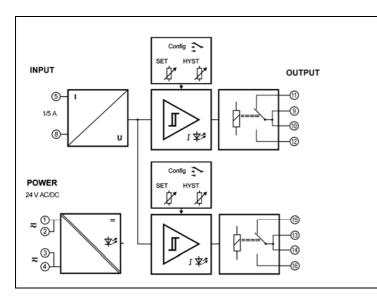
Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

Protective Separation and the 24 V AC/DC power supply make the DG 3300 universally applicable for all measurement and industrial applications, as well as for building automation.

- Easy selection of operating mode MIN / MAX alarm and N.O. / N.C. contact can be easily set by using DIP switch
- Relay with high power handling SPDT relay with 6 A current switch capability
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- **Protective Separation acc. to EN 50178** Protects service personnel and downstream devices against impermissibly high voltage
- High reliability and long-term stability New APT technology, no maintenance costs
- Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
- 5 Years Warranty







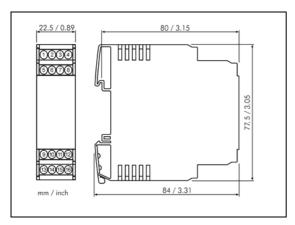
Input						
Input signal	DC: 0 1 A ± 1 A 0 5 A ± 5 A					
	AC: 0 1 A 0 5 A sinusoidal alternating currents, f = 10 500 Hz					
Input resistance	$<$ 10 m Ω					
Overload	2 x I _N continuous, surge current: 100 A for 1 s					
Set point range	0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable					
Hystersis	0 60 % of final value with 12-turn potentiometer					
Output						
Contact type	2 SPDT relays, mode of operation switchable					
Switching capability	250 V AC/DC, max. 6 A, max. 1500 VA					
Switch state indicator	Yellow LED					
Response time	DC Input: approx. 20 ms AC Input: approx. 500 ms					
General Data						
Set point error	0.2 % of final value					
Temperature coefficient ¹⁾	150 ppm/K of final value					
Test voltage	4 kV, 50 Hz, input against power supply against both relays					
	2.5 kV, 50 Hz, relay I against relay II					
Working voltage (Basic Insulation) ²⁾	Up to 600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 50178 between input, power supply and relay outputs. Up to 300 V AC/D between both relay outputs.					
Protection against electrical shock ²⁾	Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for overvoltage category II and pollution degree 2 between input, power supply and relay outputs.					
Power supply	24 V AC/DC, ±15 % AC 48 62 Hz, approx. 2 VA					
	DC approx. 1 W					
Ambient temperature	Operation - 20 to + 60 °C (-4 to +140 °F)					
·	Transport and storage - 35 to + 85 °C (-31 to +185 °F)					
EMC ³⁾	EN 61326 -1					
Construction	22.5 mm housing, protection class: IP 20					
Weight	Approx. 100 g					

1) 2)

Average TC in specified operating temperature range. As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices. Minor deviations possible during interference.

3)

Dimensions



Product line

Devices	Order No.
Current Measuring Contactor	DG 3300





Voltage Measuring Contactor DG 3400

Monitoring of AC/DC Voltage

With the Voltage Measuring Contactor DG 3400 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

The Voltage Measuring Contactor DG 3400 is used to monitor limit values of AC/DC voltages. High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

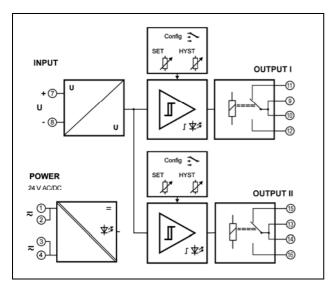
Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

Protective Separation and the 24 V AC/DC power supply make the DG 3400 universally applicable for all measurement and industrial applications, as well as for building automation.

- Easy selection of operating mode MIN / MAX alarm switch selectable, switch point and hysteresis adjustable on front panel
- Relay with high power handling SPDT relay with 6 A current switch capability
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- **Protective Separation acc. to EN 50178** Protects service personnel and downstream devices against impermissibly high voltage
- High reliability and long-term stability No maintenance costs
- Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
- 5 Years Warranty





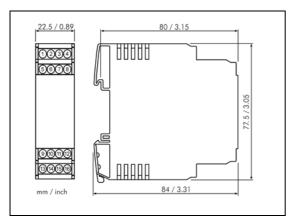




Input						
Input signal	Measuring ranges: 24 V, 48 V, 100 V, 120 V, 250 V, 500 V switchable					
	Unipolar, bipolar or sinusoidal alternating current voltages, $f = 10 \dots 500 Hz$					
Input resistance	1 ΜΩ					
Overload	Max. 600 V continuous					
Set point range	0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable					
Hystersis	0 60 % of final value with 12-turn potentiometer					
Output						
Contact type	2 SPDT relays, mode of operation switchable					
Switching capability	250 V AC/DC, max. 6 A, max. 1500 VA					
Switch state indicator	Yellow LED					
Response time	DC Input: approx. 20 ms AC Input: approx. 500 ms					
General Data						
Set point error	0.2 % of final value					
Temperature coefficient ¹⁾	150 ppm/K of final value					
Test voltage	4 kV, 50 Hz, input against power supply against relay					
	2.5 kV, 50 Hz, relay I against relay II					
Working voltage (Basic Insulation) ²⁾	Up to 600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 50178 between input, power supply and relay outputs. Up to 300 V AC/D between both relay outputs.					
Protection against electrical shock ²⁾	Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for overvoltage category II and pollution degree 2 between input, power supply and relay outputs.					
Power supply	24 V AC/DC, ±15 % AC 48 62 Hz, approx. 2 VA DC approx. 1 W					
Ambient temperature	Operation $-20 \text{ to } + 60 \text{ °C}$ (-4 to +140 °F)					
1	Transport and storage -35 to $+85$ °C (-31 to $+185$ °F)					
EMC ³⁾	EN 61326 -1					
Construction	22.5 mm housing, protection class: IP 20					
Weight	Approx. 100 g					

Average TC in specified operating temperature range.
 As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
 Minor deviations possible during interference.

Dimensions



Product line

Devices	Order No.
Voltage Measuring Contactor	DG 3400





Temperature Alarm Unit

DG 3600

Control And Monitor Pt-Temperature Signals

With the Alarm Unit DG 3600 DRAGO is extending its offer on high-functional and high-reliable components of the interface technique.

The Alarm Unit DG 3600 is used to monitor limit values and regulate simple automation processes in temperature measuring applications with Pt-Sensors. High reliability and Protective Separation are essential characteristics that contribute to fault-free equipment operation.

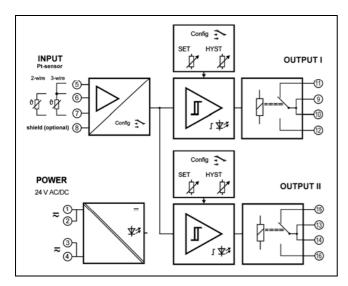
Two switch channels can be separately configured. The switch point and the switch hysteresis can each be adjusted by means of their own 12-turn potentiometer located on the unit's front panel. The switch state is indicated by a yellow LED.

The direction of effect and the mode of operation can be switched by means of DIP switch settings. Both switch outputs can be set up as either MIN or MAX alarms. The relay contacts switch high power loads either as N.O. or N.C. contacts.

Protective Separation and the 24 V AC/DC power supply make the DG 3600 universally applicable for all measurement and industrial applications, as well as for building automation.

- Easy selection of operating mode MIN / MAX alarm switch selectable, switch point and hysteresis adjustable on front panel
- Relay with high power handling SPDT relay with 6 A current switch capability
- True 4-port separation Protection against erroneous measurements due to parasitic voltages or ground loops
- Switch state indicated by LED Easy to adjust the set point and hysteresis
- **Protective Separation acc. to EN 50178** Protects service personnel and downstream devices against impermissibly high voltage
- High reliability and long-term stability No maintenance costs
- Unlimited use with 24 V AC/DC power supply Universally applicable for all measurement and industrial applications
- 5 Years Warranty







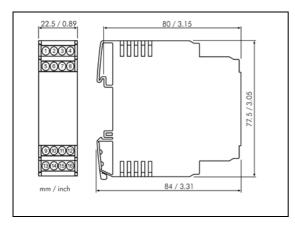


Input								
Sensor Input		Pt100	Pt200	Pt500	Pt1000	switchable		
Sensor current		1 mA	0,5 mA	0,2 mA	0,1 mA			
Sensor connection		3-wire connection / 2- wire connection, switchable						
Wire resistor		< 10 Ω per wire						
Temperature measuring range	Zero	-100 °C	-50 °C	0 °C	+50 °C	switchable		
	Span	100 K	200 K	300 K	400 K	switchable		
Set point range		0 100 % of input range with 12-turn potentiometer , MIN/MAX-Alarm switchable						
Hystersis		0 60 % of final value with 12-turn potentiometer						
Output								
Contact type		2 SPDT relays, mode of operation switchable						
Switching capability		250 V AC/DC, max. 6 A, max. 1500 VA						
Switch state indicator		Yellow LED						
Response time		Approx. 20 ms						
General Data								
Set point error		0.2 % of final value						
Temperature coefficient ¹⁾		150 ppm/K of final value						
Test voltage 4 kV, 50 Hz, input against power supply against				ainst relay				
		2.5 kV, 50 Hz, relay I against relay II						
Working voltage (Basic Insulation) ²⁾	rking voltage (Basic Insulation) ²⁾ Up to 600 V AC/DC for overvoltage category III and pollution degree 2 acc. to EN 5							
		input, power supply and relay outputs. Up to 300 V AC/DC between both relay outputs.						
Protection against electrical shock ²⁾		Protective separation according to EN 50178 by reinforced insulation up to 300 V AC/DC for						
		overvoltage category II and pollution degree 2 between input, power supply and relay outputs.						
Power supply		24 V AC/DC, ±15 % AC 48 62 Hz, approx. 2 VA						
				DC approx. 1 V				
Ambient temperature		Operation		- 20 to + 60 $^{\circ}C$	(-140 °F)		
		Transport an	ç	- 35 to + 85 °C	(-31 to	+185 °F)		
EMC ³⁾		EN 61326 -1						
Construction		22.5 mm housing, protection class: IP 20						
Weight 1) Average TC in specified operating temperature range		Approx. 100	g					

1) Average TC in specified operating temperature range

As far as relevant the standards and rules mentioned above are considered by development and production of our devices. In addition relevant assembly rules are to be considered by installation of our devices in other equipments. For applications with high working voltages, take measures to prevent accidental contact and make sure that there is sufficient distance or insulation between adjacent situated devices.
 Minor deviations possible during interference

Dimensions



Product line

Devices	Order No.
Temperature Alarm Unit	DG 3600

