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Find the *Drews Electronic SGmC-10-0-1-7* at our website: *Click HERE*

Measure
and Control
Technology

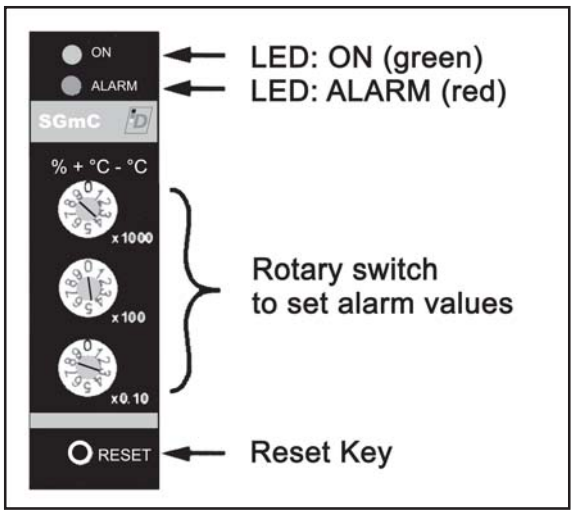
Microprocessor-based Limit Indicator

SGmC



DREWS ELECTRONIC

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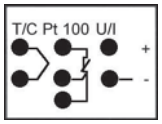


General

The microprocessor-based SGmC monitors limit value alarms (temperature, pressure etc.). The SGmC accepts following inputs: Thermocouple, RTD or standard signals (DC 0...10V or 0/ 4...20mA). On exceeding the adjusted limit value, a relay (changeover) is switched, so that other alarm devices can be controlled.

Handling and Display Elements

8 DIP-switches inside the housing to configure the SGmC
3 rotary switches on the front to adjust the limit value
1 button on the front to reset the self-hold
2 LEDs on the front to show the status



Sensors

All common thermocouples, resistance thermometers (platinum RTDs) and standard signals can be used as measuring devices. The availability of 13 selectable measuring ranges ensures the finest possible resolution of the measurement signal and standard signal range.

Pt 100		*-200...0°C*
Pt 100		*0...400°C*
Pt 100		*0...800°C*
Fe-CuNi	*(L)*	*0...800°C*
Fe-CuNi	*(J)*	*0...800°C*
CuCuNi	*(T)*	*0...400°C*
NiCr-Ni	*(K)*	*0...1300°C*
Pt10Rh-Pt	*(S)*	*0...1760°C*
Pt13Rh-Pt	*(R)*	*0...1760°C*
Current cont.	*DC*	*0...20 mA*
Current cont.	*DC*	*4...20 mA*
Voltage cont.	*DC*	*0...10 V*

Technical data

Inputs

-TC

Built-in internal compensation point and protection against breakage and incorrect polarity.
Re-calibration not required for a line resistance of up to 50 Ohm
Calibration accuracy: ≤ 0,25 %

-Pt 100 (RTD)

2- or 3-wire connection possible.
Built-in protection against sensor breakage and short-circuit.
maximum permissible line resistance
by 3-wire connection: 80 Ohm
Sensor current: ≤ 0,5 mA
Calibration accuracy: ≤ 0,2 %

-Standard signals

DC 0/4...20mA, internal resistance: < 10 Ohm
DC 0...10 V, internal resistance: > 100 k-Ohm
Calibration accuracy: ≤ 0,2%

Linearity error: ≤ 0,2 %
Ambient temperature effect on measurement range: ≤ 0,01%/K

Alarm output

Relay (changeover) max. AC 230 V, 3 A at cos-phi = 1

EMC

Tested according to EU-directives 89/336 (CE-Tested)
Emission: EN 50 081-2
Interference resistance: EN 50 082-2

Power supply

***AC 230 V** (internal jumper AC 115 V), ± 10%, 48...62 Hz*
***DC 24 V**, ± 20%, premissable residual ripple max. 5% r.m.s.*

approx. 2 VA power consumption

Connections

Screw terminals, Protection mode IP 20 (DIN 40 050),
Insulation class C

Premissable operating conditions

Operating temperature: 0...+50 °C / 32...122°F
Storage temperature: -30...+70 °C / -22...158 °F
Climate class: KWF DIN 40040, i.e. 75 % relative humidity per annual average, no dew load.

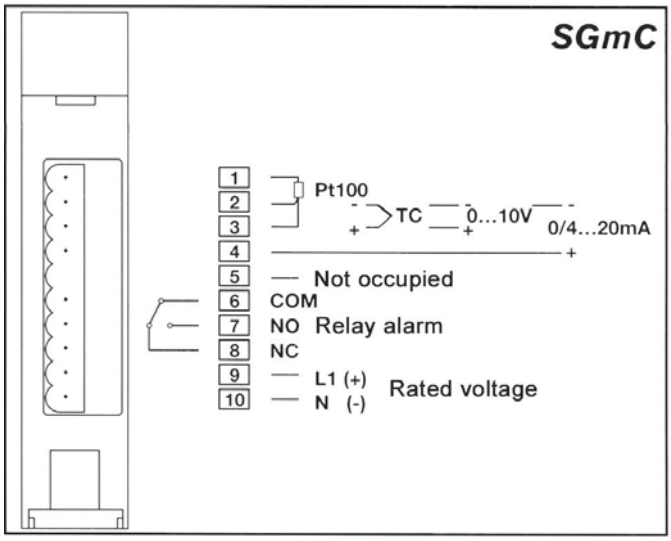
Housing

Format: 22,5 mm x 75 mm x 105 mm (DIN-rail mountable device)
Material: ABS, self-extinguishing, non-drip, UL 94-V0
Protection mode: IP 20 (DIN 40 050)

Weight

Approx. 160 g

Connection diagram



Subject to technical changes!

Type code

SGmC - 10 - 0 - 1 - ☐

Power supply:
7: AC 230 V
(internal jumper AC 115 V)
8: DC 24 V

DREWS Electronic GmbH Robert-Bosch-Straße 3 47475 Kamp-Lintfort / Germany
Phone: 00 49 (28 42) 96 31 0 Fax: 00 49 (2842) 96 31 99 eMail: drews@drews-electronic.de
www.drews-electronic.de

Data Sheet SGmC e 1491.1212 6/04

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