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Microprocessor-based Limit Indicator SGmC

The microprocessor-based SGmC monitors limit value alarms (temperature, pressure etc.).
The SGmC accepts following inputs:
All common Thermocouples, 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.
SGmC are preferred for measuring temperatures in solids, bearings and molding tools, for example in the plastics industry, packaging machines, rt.



Type SGmC

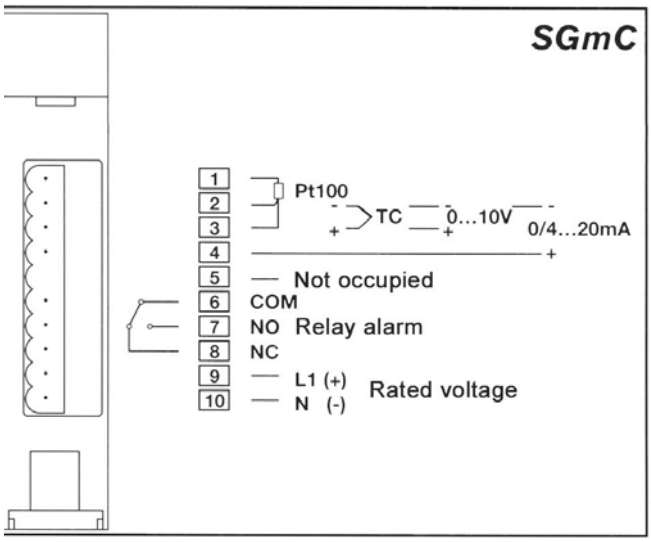
Handling and Display Elements

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

Measurement inputs		measuring ranges
PT 100	DIN EN 60751	–200... 0° C
PT 100	DIN EN 60751	0... 400° C
PT 100	DIN EN 60751	0... 600° C
Fe-CuNi (L)	DIN EN 43710	0... 800° C
Fe-CuNi (J)	DIN EN 60584	0... 800° C
Cu-CuNi (T)	DIN EN 60584	0... 400° C
NiCr-Ni (K)	DIN EN 60584	0...1370° C
NiCr-CuNi (E)	DIN EN 60584	0... 700° C
Pt10 Rh-Pt (S)	DIN EN 60584	0...1760° C
Pt13 Rh-Pt (R)	DIN EN 60584	0...1760° C
Current cont.		0... 20 mA
Current cont.		4... 20 mA
Voltage cont.		0... 10 V



Features

- **Measurement inputs freely configurable:**
  Resistance thermometers (PT 100);
  Thermocouples (Type E, K, L, R, S, T);
  Standard signals (0/4...20 mA; 0...10 V)
- Rotary switches to adjust the limit value
- Time-delayed switching,
- **Alarm output:**
  Relay (changeover) max.3A, AC 230 V
- **Power supply:**
  115/230 V AC or 24 V DC
- **Housing:** 22,5mm (DIN-rail mountable device)

01.2005

ICS Schneider Meßtechnik GmbH **Tel.: 03303 / 504066** **info@ics-schneider.de**
Briesestraße 59 **Fax: 03303 / 504068** **www.ics-schneider.de**
D-16562 Bergfelde / Berlin
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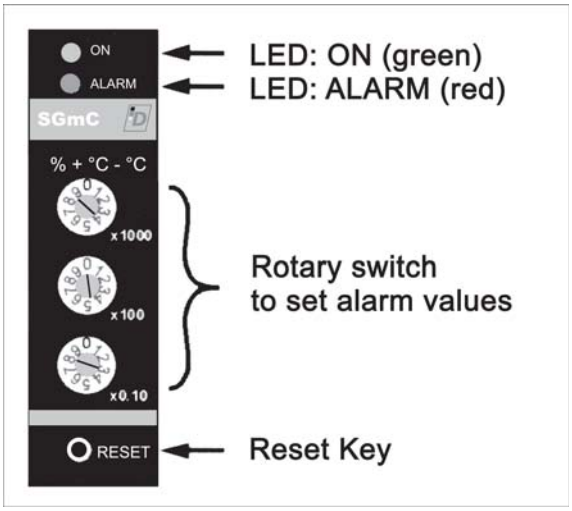
Technical data

Inputs

Thermocouple
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 DIN EN 60751
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 (Z-Barrieren)
Sensor current: ≤ 0,15 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.

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 KWF DIN 40040

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. 170 g

Type code / Order-Nr.:
SGmC-10-0-1-7 (Power supply: 230 V AC; internal jumper AC 115 V)
SGmC-10-0-1-8 (Power supply: 24 V DC)

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