TRANBERG®

THERMOSTAT
TRANBERG ThermoConnect (TTC)
1060701/-702 Controller
ZONE 1 , ZONE 2 & SAFE AREA

Subject to change without prior notice TPS6043 REV. B 28.09.2018

Ex CE

TEF1060701/702 is an electronic heat-tracing control unit featuring the benefits of local control and the capability for central monitoring. TEF1060701/702 control unit can be used for single phase circuits up to 20 A and is approved for use in hazardous areas.

TEF106702 is equipped with an IEC 61508-SIL 2 classified safety temperature limiter on board (NGC-20-CL-E). It measures the temperature with up to two RTD(s) connected to the unit. The Safety temperature limiter has a dedicated temperature input.

TEF1060701/702 unit is equipped with a RS-485 interface. Through this interface up to 247 TEF1060701/702 units can be networked to one serial port of standard PC running Tranberg PlantConnect™ control and monitoring software.

APPLICATION

- Hazardous areas
- Chemical and petrochemical industries
- Industrial plants (for frost protection or temperature maintenance)
- According to NORSOK requirements
- All areas where thermal processes need to be prevented from overheating (1060702 only)

FEATURES AND BENEFITS

- Ready for Tranberg PlantConnect™ (Remote control and monitoring).
- Two RTD channels for temperature controller.
- High ingress protection. IP66.
- Manufactured in acid proof stainless steel (AISI 316L).
- Control Monitoring and alarm capabilities.
  - *TEF1060701/702 offers alarms for high temperature, high and low current, ground fault, current and voltage. The trip and warning level of the ground-fault current is user configurable and can be used as a warning and to isolate circuits. Note that certain alarms or information is only available through the serial port.*
- Automated heat-tracing system check.
  - *To ensure system integrity the Raychem NGC-20 control unit can be configured to periodically check dormant heating cables for faults. As a consequence maintenance is systematically informed about the status of the heat-tracing system and unexpected and usually expensive downtime of important pipelines can be reduced.*

TECHNICAL DATA

Type designation:	Stahl 8150/5, part number 1060701(controller) / 1060702 (Controller and limiter)
Ex-protection:	(Ex) II 2 G Ex eb ib mb IIC T4 Gb
Voltage range:	100-254V AC +/-10%, 50/60Hz
Maximum load:	20A
Protection:	IP66
Material:	AISI 316L / EN 1.4404
Max. wire termination (with end sleeve):	Power in: Max. 6mm^2 Heating cable (power out): Max. 4mm^2 Earth terminals: Max. 10mm^2
T_{amb} (Operation):	-20 to +45°C

APPROVALS AND CERTIFICATES

PTB 09ATEX1109

The TEF 1068702 safety temperature limiter meets the requirements of EN 60079-30-1. For applications installed in a hazardous area this means that the protective device shall de-energize the system to prevent exceeding the maximum permissible surface temperature. In case of an error by, or damage to the sensor, the heating system shall be de-energized before replacing the defective equipment. The protective device operates independently from the temperature controller.

DESCRIPTION

	Weight	Part No.
Tranberg ThermoConnect - 1060-TTC/C - Controller	18,5 kg	1060 701
Tranberg ThermoConnect - 1060-TTC/CL - Controller/Limiter	18,5 kg	1060 702

DESCRIPTION ACCESSORIES

A vast selection of accessories are available at www.stahl-tranberg.com.
Including connection kits, pipe transition units, installation equipment, flexible conduits, adaptors, cable glands etc.

Description	Part No.
Temp-sensor PT100 3-wires (Ø6x300mm element), 3 meter silicone cable	5023 9078
Temp-sensor PT100 3-wires (Ø6x300mm element), 10 meter silicone cable	5023 9086
Temp-sensor PT100 3-wires (Ø6x300mm element), 25 meter silicone cable	5023 9087
Connection kit for temperature element PT100, Wall mounted	9178 045

DIMENSIONS

106A112449