# **TRANBERG® THERMOSTAT**

Tranberg ThermoConnect (TTC) | TTC/C Controller | TTC/CL Controller Limiter Zone 1, Zone 2 & Safe Area



The controller & controller limiter Thermostat is an electronic heattracing control unit featuring the benefits of local control and the capability for central monitoring. The controller & controller limiter unit can be used for single phase circuits up to 20 A and is approved for use in hazardous areas. The controller limiter 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. The controller & controller limiter unit is equipped with a RS-485 interface. Through this interface up to 247 units can be networked to one serial port of standard PC running Tranberg PlantConnect<sup>™</sup> 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 (controller limiter only)

### **Features and benefits**

- Two RTD channels for temperature controller.
- High ingress protection. IP66.
- Manufactured in acid proof stainless steel (AISI 316L).
- Control Monitoring and alarm capabilities.
- <sup>o</sup> The controller & controller limiter offers alarms for high temperature, high and low current, ground fault, current and voltage. The trip and warning level of the groundfault 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.
- <sup>o</sup> 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

## Approvals and certificates

PTB 09ATEX1109 (8150/5)\*



Technical I	Data	
Type designat	ion:	Stahl 8150/5, part number 81502351 (controller) / 81502352 (Controller and limiter)
Ex-protection:		Ex II 2 (I) G Ex eb ia mb [ia Ga] IIC T5 Gb
Material:		AISI 316L / EN 1.4404
Protection:		IP66
Voltage range	:	100-254V AC +/-10%, 50/60Hz
Maximum load	d:	20A
Max. wire terr (with end slee		Power in: Max. 6mm2 Heating cable (power out): Max. 4mm2 Earth terminals: Max. 10mm2
Tamb (Operati	on):	-40 to +40°C

\* The controller 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.



#### **R. STAHL TRANBERG AS**

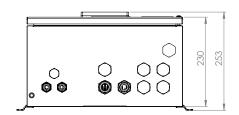
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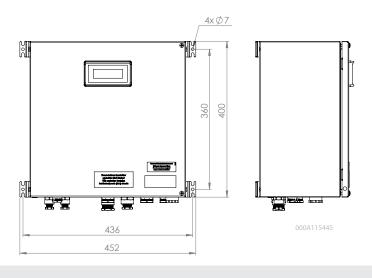
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Description	Weight	Part No.	
Tranberg ThermoConnect - 8150-TTC/C - Controller	18,5 kg	81502351	
Tranberg ThermoConnect - 8150-TTC/CL - Controller/Limiter	18,5 kg	81502352	
Accessories		Part No.	
A vast selection of accessories are available at <u>www.stahl-tranberg.com</u> . Including connection kits, pipe transition units, installation equipment, flexible conduits, a	adaptors, cable glands etc.		
Temp-sensor PT100 3-wires (Ø6x300mm element), 3 meter silicone cable		5023 9078	
Temp-sensor PT100 3-wires (Ø6x300mm element), 10 meter silicone cable			
Temp-sensor PT100 3-wires (Ø6x300mm element), 25 meter silicone cable			
Temp-sensor PT100 3-wires (Ø6x300mm element), 5 meter silicone cable		5023 9089	
Temp-sensor MONI-PT100-260/5 (Ø6x60mm element), 5 meter D4,5mm PTFE cable and M16 gland			
Temp-sensor MONI-PT100-260/10 (Ø6x60mm element), 10 meter D4,5mm PTFE cable and M16 gland			
Temp-sensor MONI-PT100-260/25 (Ø6x60mm element), 25 meter D4,5mm PTFE cable and M16 gland			
Temp-sensor MONI-PT100-Exe, high temperature exposure, with MI cable and junction box			
Temp-sensor MONI-PT100-Exe, high temperature exposure, with 2 meter MI cable and M16 gland			
Connection kit for temperature element PT100, Wall mounted			

# Dimensions







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