

# TRANBERG® WIRELESS REPEATER

Tranberg ThermoConnect TTC Trusted Wireless Repeater  
Trusted Wireless Protocol



The TRANBERG® Thermo Connect (TTC) series Trusted Wireless Repeater enables wireless extension of Modbus communication to TTC thermostats by the Trusted Wireless protocol.

The 8150 2350 TTC Trusted Wireless Repeater supports all TTC thermostats.

## Application

- Hazardous areas
- Chemical and petrochemical industries
- According to NORSOK requirements
- All areas where Trusted Wireless infrastructure facilitates communication to TTC

## Features and benefits

- Can connect to existing or new Trusted Wireless Networks.
- No need for wired communication cables from TTC to Control room.
- High ingress protection. IP66.
- Manufactured in acid proof stainless steel (AISI 316L).

## Approvals and certificates

- PTB 09ATEX1109

Modbus values can be added according to the Modbus map document TTD6512.

The footprint of the TTC Trusted Wireless Repeater matches the 8150 23xx series TTC thermostats.

The compact form factor of the TTC Trusted Wireless Repeater makes it easy to install and this versatility enables installation in a suitable location to ensure good wireless coverage.



## Technical Data

Type Designation:	Stahl 8150/5, part number 81502350
Material:	AISI 316L / EN 1.4404
Voltage Range:	100-254V AC +/-10%, 50/60Hz
Ex-Protection:	II 2 G Ex db eb mb [ia Ga] IIC T5Gb
Ingress protection:	IP66
Weight:	8 kg
Operating temperature:	-25° to +40°C

TRANBERG **STAHL**

THE STRONGEST LINK.

## R. STAHL TRANBERG AS

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## Trusted Wireless Features

### Security mechanisms:

- Proprietary technology
- Data encryption (128 bit AES)
- Frequency Hopping
- Network ID (unique)
- Authentication
- WLAN-Blacklist

### Benefits

- No complicated cable laying
- Bridging problematic distances and areas
- More flexibility
- Disturbance-free communication, no electromagnetic influences

## Key Facts Wireless Heart

Network structure	Mesh network 1 master up to 249 slaves
Standard	Proprietary by Phoenix Contact
Transmission method	Frequency hopping (FHSS)
Application	Low/medium data rate, large networks, best for infrastructure application
Frequency	2,4Ghz
Latency time (typical)	0,1 –> 2 s, depending on the OTA data rate / network structure
Distance (best case)*	<= 5 km (2,4 GHz)

\* Distance specified is best case. Distance will be affected by: line of sight, type of antenna used and the configured data rate.



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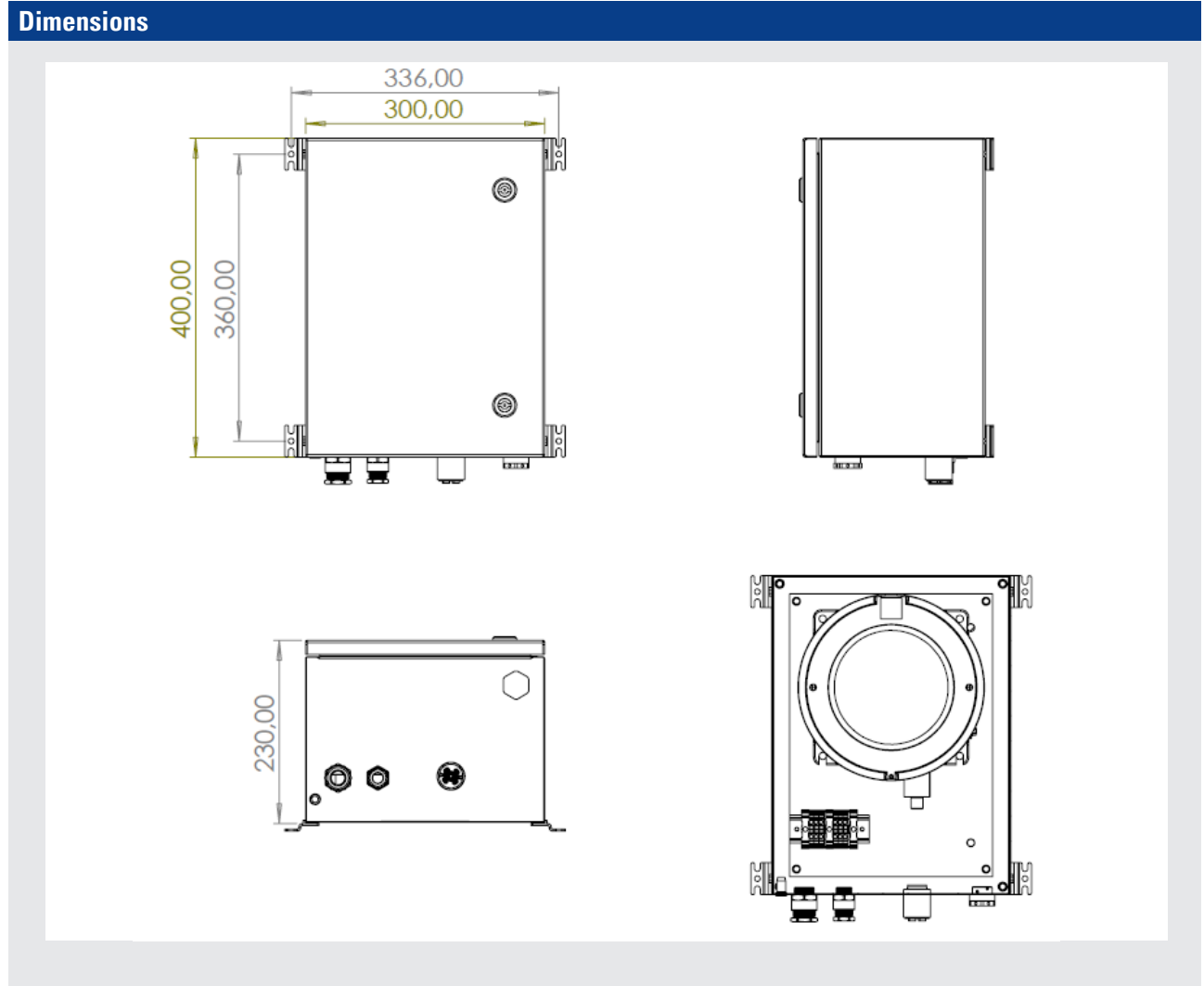
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Description	Part No.
TRANBERG® ThermoConnect - TTC/C/ Trusted Wireless Repeater	81502350

Accessories	Part No.
Phoenix Antenna RAD-ISM-2400-ANT-OMNI-6-0 IP67	50281280
Phoenix Antenna RAD-DIR-2459-01	50281281
Phoenix Antenna Cable RAD-CAB-EF393 3M	50281061
Phoenix Antenna Cable RAD-CAB-EF393 5M	50281063
Phoenix Antenna Cable RAD-CAB-EF393 10M	50281064
Phoenix Antenna Cable RAD-CAB-EF393 15M	50281062



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