# 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 infra- structure 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 is 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**
Main office | Strandsvingen 6 | N-4032 Stavanger, Norway | **T** +47 51 57 89 00 | **E** info.no-st@r-stahl.com | stahl-tranberg.com

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*Subject to change without prior notice*

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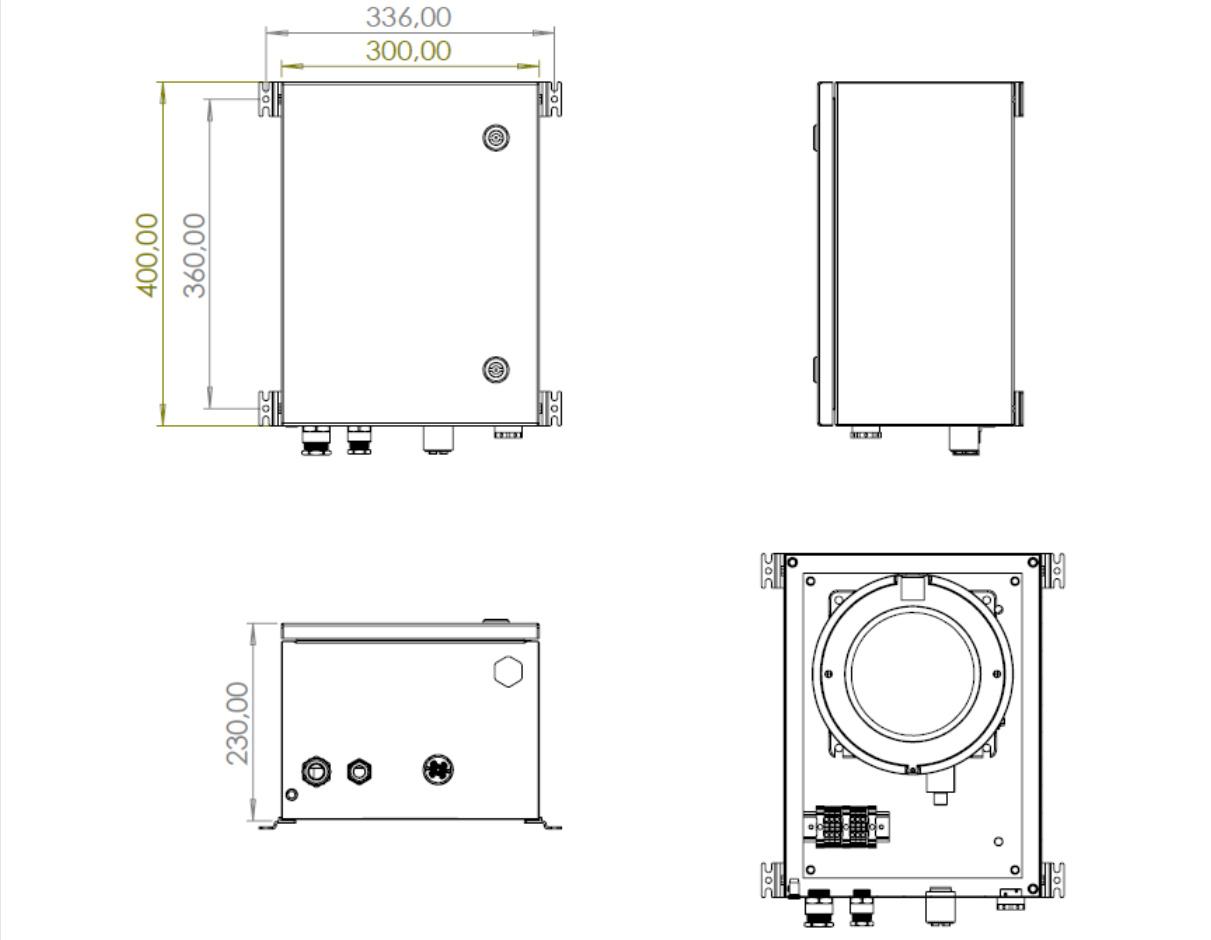
| Description | Part No. |
|---|---|
| TRANBERG® ThermoConnect - TTC/C/ Trusted Wireless Repeater | 81502350 |

| 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 |

## Dimensions

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