KMT - Kraus Messtechnik GmbH

Gewerbering 9, D-83624 Otterfing, Germany, **2** 08024-48737, Fax. 08024-5532 Home Page: http://www.kmt-telemetry.com, Email: info@kmt-telemetry.com



TEMPTEL8-Wheel

8 channel Telemetry System for Thermocouples K or J

User Manual

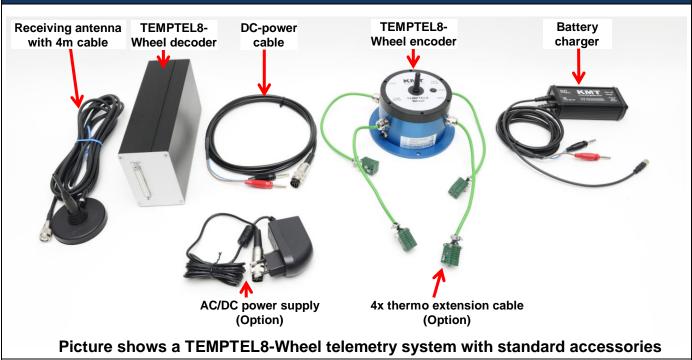


- 8x Thermocouple inputs for K or J
- Full galvanic isolated inputs
- Temperature range -50 to 1000°C
- Signal bandwidth 8x 0-30Hz
- 12 bit ADC, simultaneous sampling

- Linearized output for K or J
- Analog output +/- 10V, Opt. CAN-BUS
- 4 different carrier frequencies
- Rechargeable battery
- Water protected Tx-housing (IP65)

INSTRUCTIONS FOR QUALIFIED PERSONNEL ONLY!

General functions:



TEMPTEL8-Wheel is an telemetry system designed for easy mounting onto rotating Wheels to provide noncontact transmission of temperature measurement.

Sensors inputs are connected via screw clamp. Measured values are prepared in analog format, digitized (12bit) and transmitted via radio frequencies. Four different carrier frequencies are provided, this allows up to four systems (e.g. for four wheels) to operate in parallel. The complete transmitter assembly is waterproofed to IP65 specifications.

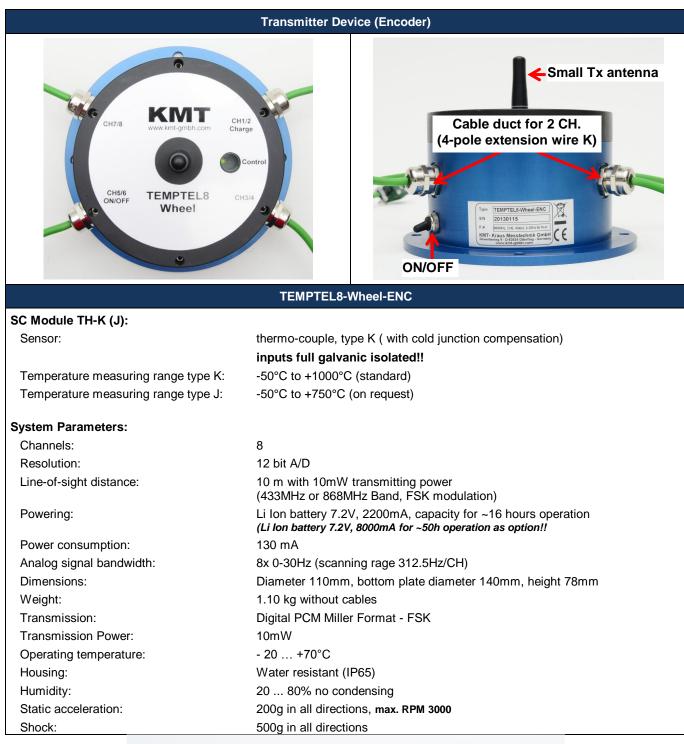
The following thermocouples can be connected: Type K -50 to 1000°C (standard) or Type J -50 to 750°C (optional)

All inputs are full galvanic isolated!

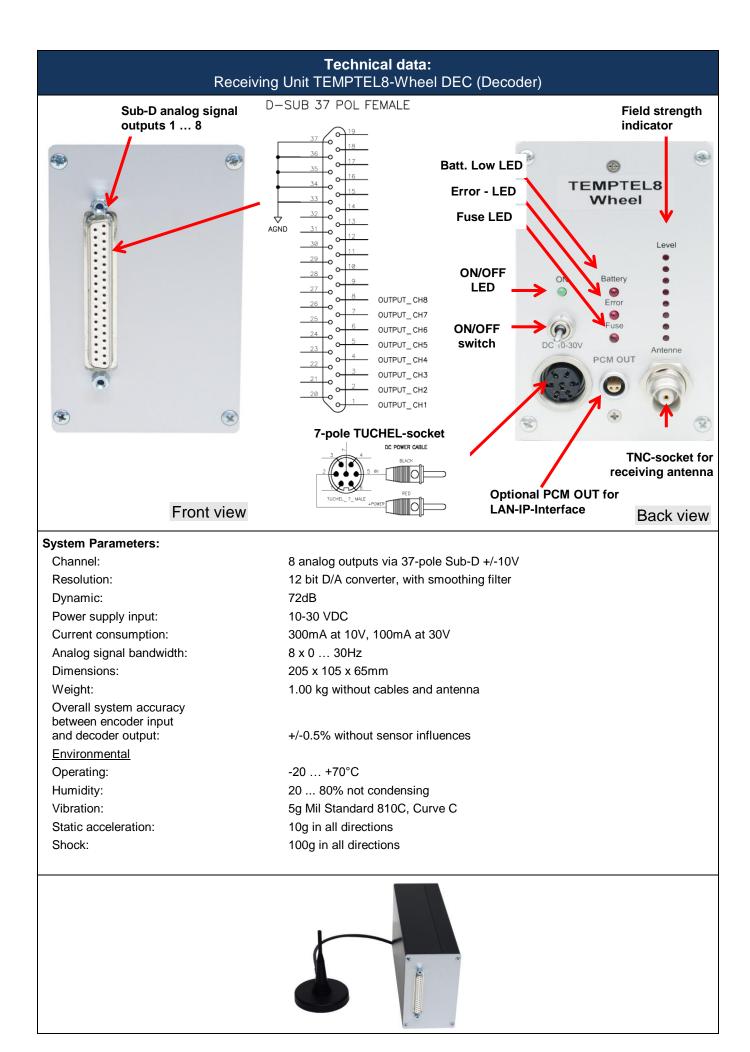
The measured values are processed and output as +/-10V analog signals (linearized for K or J) at the BNC sockets (optional digital output for special PCM interface into a PC) on the stationary receiver located in a vehicle.

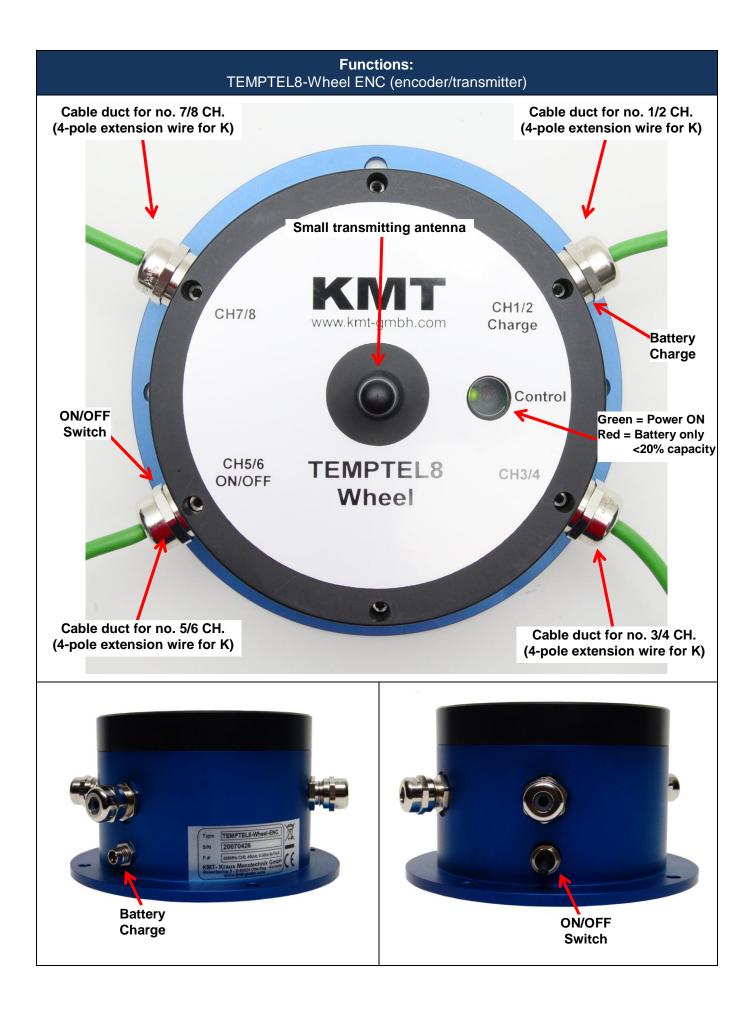
Resolution of 12 bits is standard; this enables an amplitude dynamic of 72 dB. The analog signal bandwidth is 0-30 Hz (-3dB) when configured as an eight channel. The measurement accuracy is +/-0.5 % (without sensor). The TEMPTEL8-Wheel is suited for operation at ambient temperatures of -20 to +70°C. The transmission distance between transmitter and receiving antenna is of the order of up to 10m (30 feet) - <u>depend of application!</u>

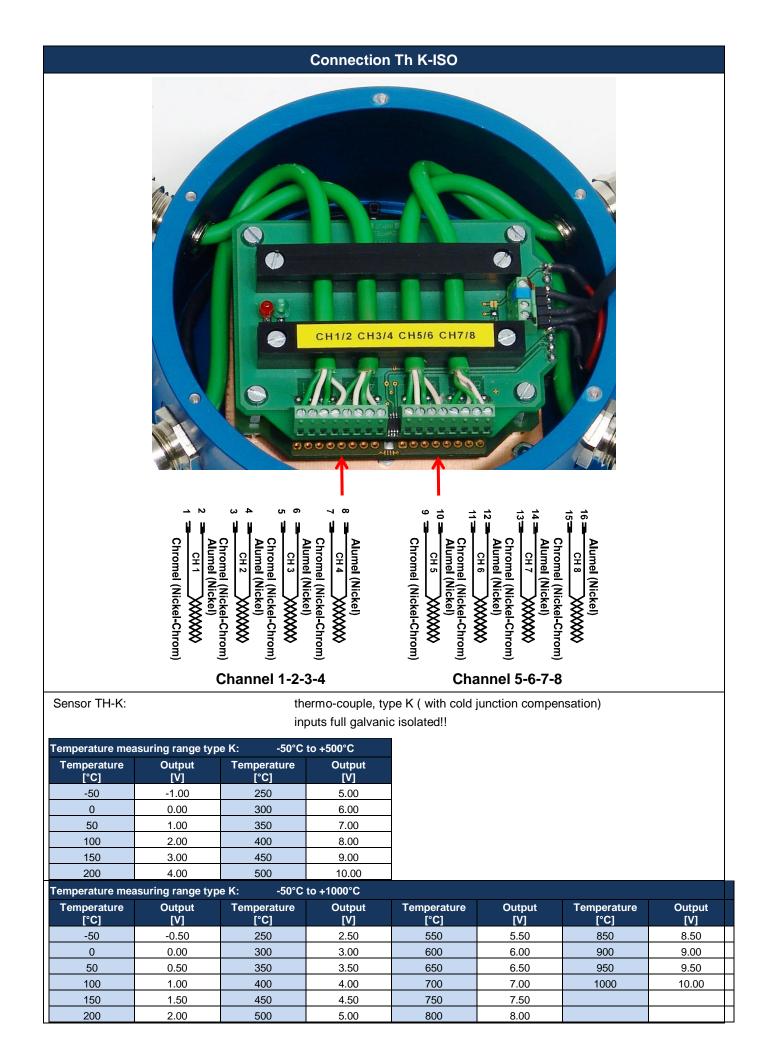


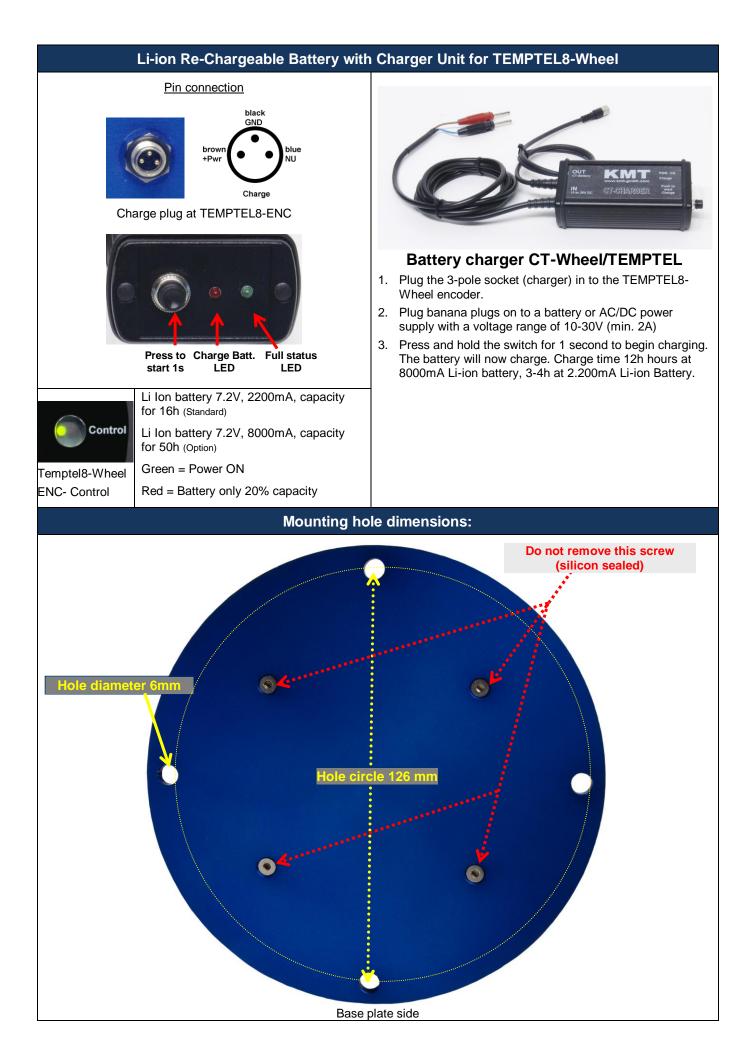




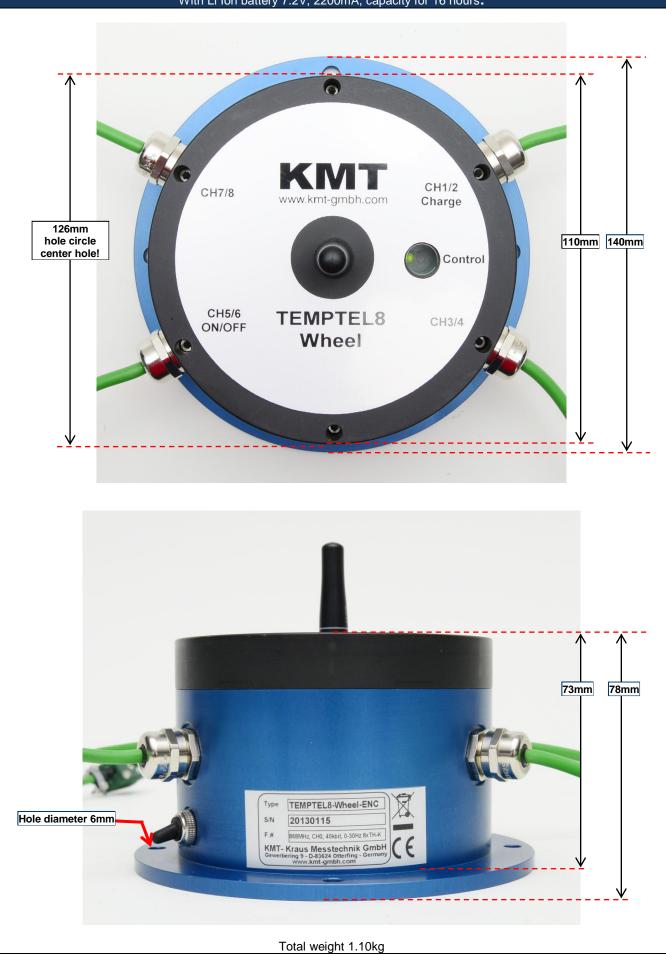








Dimensions standard housing With Li Ion battery 7.2V, 2200mA, capacity for 16 hours:



Dimensions optional with large battery: With Li Ion battery 7.2V, 8000mA, capacity for 50 hours:

