Tele thermo R – Rotating Telemetry
Customization Examples
[Wheel-mounted Type]

Easy Measure

【Measurement Made Easy】
Ready to use
Easy to use for anyone
Carry & use anywhere

[General]

Easy Measure's rotating telemetry, **Tele themo R**, has been used in wide industry areas for its easy installation, excellent wireless performance, and high precision & strong noise resistance.

As to wheel-mounted telemetry, there are various issues as " too many measuring points", "transmitter is exposed to high temperature", "worrisome to replace batteries", and "not easy to receive wireless signals." Easy Measure has been building a lot of telemetry systems to solve these issues.

External Display

Wheel-mounted Transmitter①

Receiver

Wheel-mounted Transmitter②

[Customization Examples]

■ Input
Multiple channels (1 to 8 channels) and mixture of different sensors.
Thermocouples (from N/K/E/J/T/R/B/S) and strain gauges.
4 wheels

■ Transmitter Operating Temperature: up to 120 deg.C

■ Transmitter Power: Battery (replace or charge type)
Remote ON/OFF

■ External display for temperature monitoring

■ CAN/LAN outputs for measured data

[Wheel-mounted 2-ch x 4 wheels temperature telemetry – Example spec.]

Wireless Common Specifications

| Items	Specifications
Configuration	1 Transmitter, 1 Receiver
Wireless	2.4GHz advanced low-power data communication
Diversity	Yes
Distance	5m (free space)

Transmitter Specifications

Items		Specifications
Channels		2 channels
Input	Type	N/K/E/J/T/R/B/S
	Resolution	0.1 deg.C
	Accuracy	＜±1.5 deg.C (whole temp range)
Connection		Cageclamp terminal
Sampling		50 times/s
Antenna		Built-in
Power		Dedicated Lithium Battery (LS14250) *Replace type
Power Switch		Built-in
Battery Level		Displayed in green/yellow/red. Replace the battery if red is displayed.
Power Consumption		3.6V/<20mA
Battery Run Time		About 12 hours
Operating Temp.		-10 to 80 deg.C
Operating Humidity		10 to 85%RH (no condensation)
Dimensions		Φ76 x 26.7[H] mm (excluding protruding parts)
Weight		140±1g excluding batteries

Receiver Specifications   TC: Thermocouple

Items	Specifications
Signal Input	Measured data from the transmitter
Channels	Transmitter (2ch) x 4 units= 8 channels
Output Format	Single-end analog output USB (digital)
Output Range	±10V maximum. Range can be set by software.
Output Terminal	BNC Connector
Allowable Load Resistance	<2kΩ
Output Impedance	< 100Ω
DA Conv. Resolution	14bit. ±0.05%FS (@±10V full scale)
Data Updates	20ms
PC Interface	USB2.0
Burnout Function	Scale out to +2,000 deg.C
TC Types	Set by PC software. All at once.
External Display	Yes
Data Retention	Keeps previous data when transmission stops.
Output Range	Setting by PC software
Wireless Channel	Setting by PC software
Input Power	DC 12V or dedicated AC adaptor (12V/2A) *Operated with DC 9-16V
Power Consumption	15W (typ.) when dedicated AC adaptor is used.
Operating Temperature	0 to +50 deg.C
Operating Humidity	10-85%RH (no condensation)
Dimensions/Weight	206[W] x 160[D] x 86[H] mm
Weight	1506g

[Configuration]
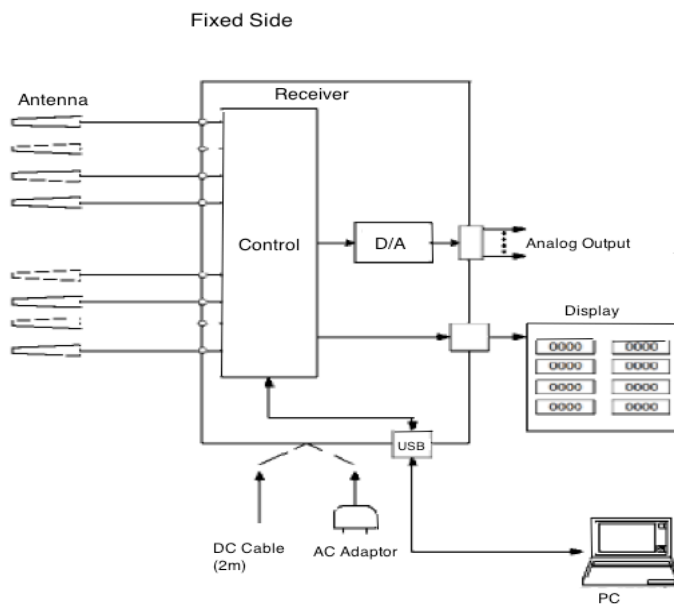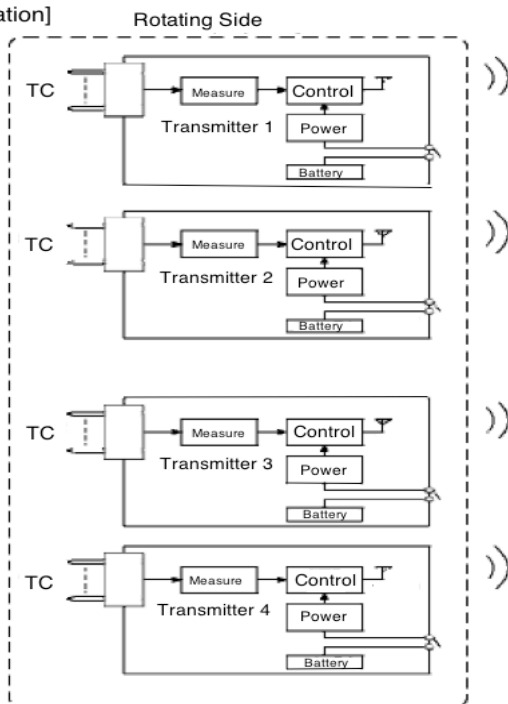
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