

Single Channel Thermotelemetry System

MODEL IMT-100T

Our compact (W15.5 x D9.0 x H4.7 mm), light (1 g), implantable single channel thermotelemeter IMT-100T using PFM method offers you a long-term consecutive measurement for up to 6 months.

By turning its power off when not in use, this thermometer remains operable for even longer period of time. The magnet switch incorporated in the transmitter allows you to turn it on/off externally by putting a magnet closer to the implanted thermometer. Our affordable, single-use transmitter makes it possible to use a brand new device for every measurement of yours, that is to say, you can always rely on its accuracy (0.1°C). Although a thermistor is employed for our thermal sensor, its B constant is corrected by a microprocessor to keep the accuracy of measurements sufficiently reliable.

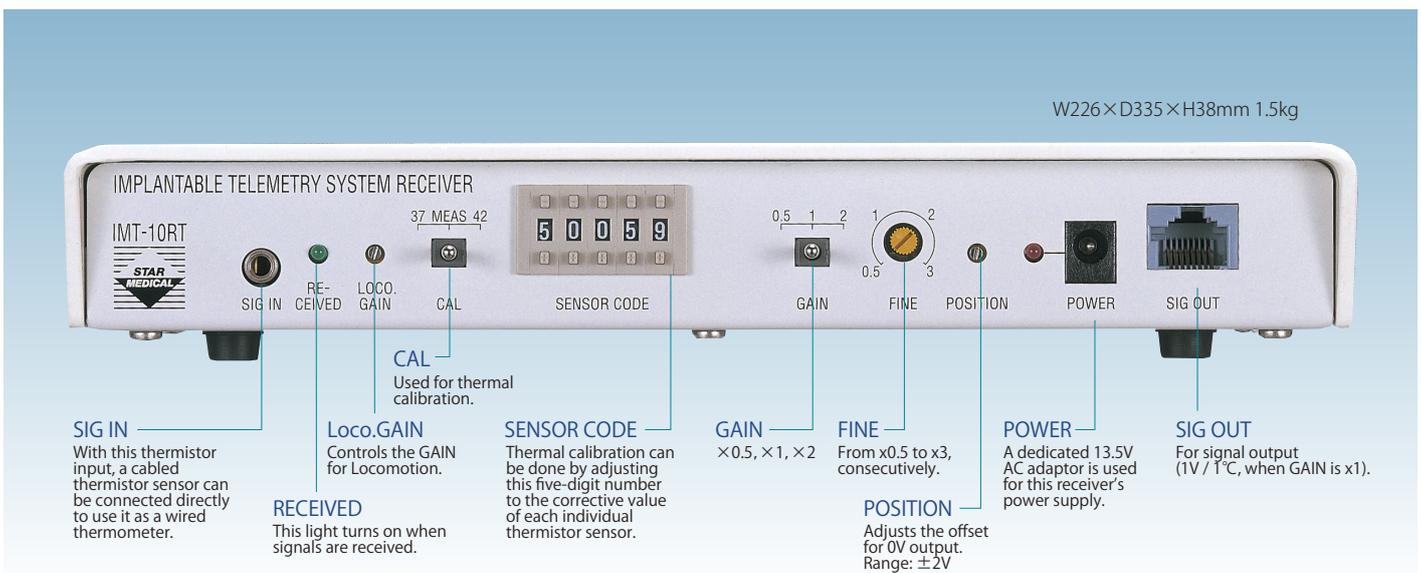
The receiver works with 1V / 1°C analog voltage, and it can be connected to most of types of loggers by itself. Besides body temperature, the IMT-100T system features Locomotion output utilizing the correlation between the distance and strength of transmitted radio wave, which indicates the momentum of subject animals.

Transmitter for mice MODEL 10T-T



- Dimension : $\phi 9 \times 18$ mm
- Weight : approximately 1.5 g
- Transmission Range : approximately 12 cm
- Mold : glass capsule
- Measurement Time : practically up to 6 months
- Sensor : thermistor

Receiver IMT-10T



SIG IN
With this thermistor input, a cabled thermistor sensor can be connected directly to use it as a wired thermometer.

RECEIVED
This light turns on when signals are received.

Loco.GAIN
Controls the GAIN for Locomotion.

CAL
Used for thermal calibration.

SENSOR CODE
Thermal calibration can be done by adjusting this five-digit number to the corrective value of each individual thermistor sensor.

GAIN
 $\times 0.5, \times 1, \times 2$

FINE
From $\times 0.5$ to $\times 3$, consecutively.

POSITION
Adjusts the offset for 0V output. Range: $\pm 2V$

POWER
A dedicated 13.5V AC adaptor is used for this receiver's power supply.

SIG OUT
For signal output (1V / 1°C, when GAIN is $\times 1$).



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