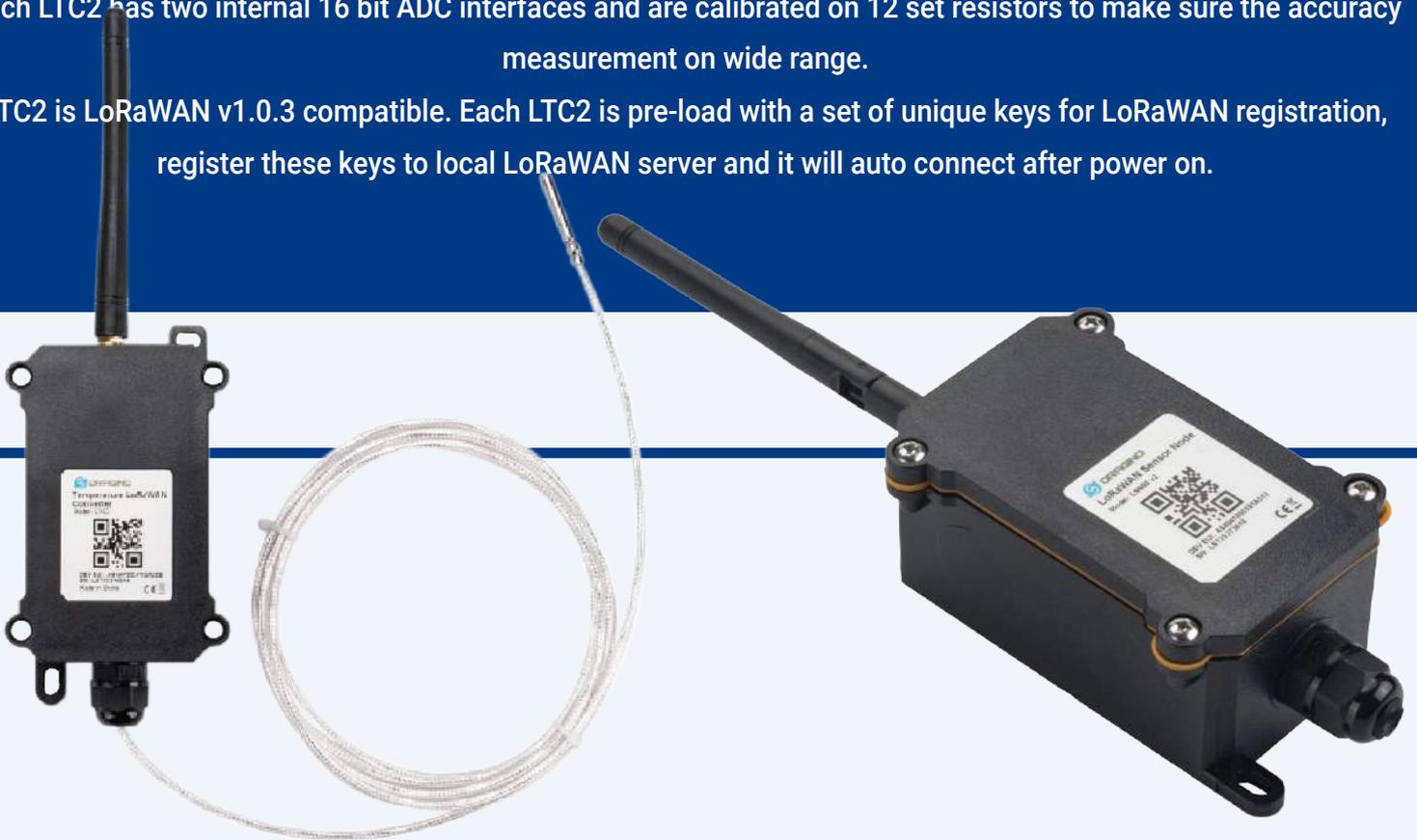# Industrial LoRaWAN Temperature Transmitter

LTC2

The Dragino LTC2 Industrial LoRaWAN Temperature Transmitter is designed to monitor temperature for different environment. It supports to read PT100 probe and convert the value to temperature and uplink to IoT server via LoRaWAN protocol.

LTC2 supports datalog feature. User can retrieve the sensor value via LoRaWAN downlink command.

LTC2 is powered by 8500mA Li-SOCI2 battery for long time measurement. The battery can run 2~10 years depends on the network environment and working mode.

Each LTC2 has two internal 16 bit ADC interfaces and are calibrated on 12 set resistors to make sure the accuracy measurement on wide range.

LTC2 is LoRaWAN v1.0.3 compatible. Each LTC2 is pre-load with a set of unique keys for LoRaWAN registration, register these keys to local LoRaWAN server and it will auto connect after power on.

STANDARD FEATURES

LoRaWAN 1.0.3 compliant	Configurable via LoRa or UART
max: 2 x monitor temperature channels	Datalog and retrieve via LoRaWAN
Support 3 -wire PT-100	Use pre-load PT100 probe or 3rd PT100 probe
8500mAh Li-SOCI2 Battery	Factory calibration for different resistance range
Firmware upgrade via console	Support accuracy measure of resistance and upload
Wall Mountable	Battery Monitoring and upload

POWER CONSUMPTION
Sleeping Mode: 33uA
Sampling: 20mA
LoRa Transmit: 24 ~ 150mA

DIMENSION
Size: 150 x 120 x 55 mm
Net Weight: As Per Probe option

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Industrial LoRaWAN Temperature Transmitter

LTC2

SPECIFICATIONS

TEMPERATURE SENSOR

Range: as per probe option

Accurancy: 0 ~ 80°C ± 0.5°C

Resolution: 0.01°C

APPLICATION

Logistics and Supply Chain Management

Food management

Cold chains solution

Industrial Monitoring and Control

ORDER INFO

LTC2-XX-YY

XX: Probe Option, include

SI, LT, FS, HT, FT, NA,

See next page

YY: Frequency band , includes

EU868, US915, AU915, AS923, EU433

IN865, KR920, KZ865, RU864 or CN470

PROBE OPTION I

LTC2-SI   STANDARD IP68

Installation: Insert

Probe Dimension: 4*30mm

Measure Range: -50 ~ 200 °C

Cable Length: 2 meters

Heraeus PT100

Suitable Environment: General environment

LTC2-LT LOW TEMPERATURE

Installation: Insert

Dimension: 4*30mm

Measure Range: -196 ~ 150 °C

Cable Length: 2 meters

Heraeus PT100

Suitable Environment:

Low temperature measurement, such as COVID vaccine transport.

LTC2-FS FOOD SAFETY TYPE

Installation: Insert

Dimension: 4*150 mm

Measure Range: -50 ~ 200 °C

Cable Length: 2 meters

Heraeus PT100

Suitable Environment: Foods.

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PROBE OPTION II

LTC2-FT FLAT TYPE

Installation: Attached

Dimension: 8*25mm

Measure Range: -50 ~ 200 °C

Heraeus PT100

Suitable Environment: measure flat object, the whole flat side is measurement point.

LTC2-NA NO PROBE

User can connect to their own PT100 Probe

Grand Hole: M12

Suitable Environment: Connect to customized probe

LTC2-HT   HIGH TEMPERATURE

Installation: Insert

Probe Dimension: 4*30mm

Measure Range: -70 ~ 550 °C

Cable Length: 3 meters

Heraeus PT100

Suitable Environment: High Temperature