

# Venus



DeepWave Wireless Real Time Monitoring System temperature data logger with long distance transmission, with high definition ePaper display, 4-button control keypad and buzzer for acoustic alarms. User replaceable batteries and internal temperature sensor. **Request the Accredia traceable certificate.**



## Applications



Cold Chain



Warehouses



Environment



Food & Beverages



Laboratories



Constructions

## Main features

- Temperature sensor with long distance radio transmission (up to 3 km in open field)
- 2.9" ePaper display
- 4-button keypad for diagnostics and configuration
- User replaceable batteries
- Can be calibrated (ISO certificate)

## Plus

- Easy to install and configure
- Covers long transmission distances
- Low energy draining display
- Local alarm for immediate intervention
- Validatable DeepWave system in pharmaceutical and healthcare environment

## The system

The DeepWave system consists of:

- DeepWave radio modules (LoRa nodes)
- Helios receiver (LoRa gateway)
- TSLog 21 software

## Accessories

- TSLog 21
- Helios - LoRa Gateway
- Surface Support for DeepWave Node
- Wall Mounting support for DeepWave Node

## Technical specifications

Dimensions	146.6 X 88 X 33 (mm)
Weight	280 g
Materials	ABS, Rubber
Temperature range	-20 °C ÷ +50 °C (non condensing)
Sensors	1 X internal temperatura
Standard calibration points (temperature)	-10/0/20/40°C
Extra calibration points (temperature)	Within the range -20 °C ÷ +50 °C
Temperature resolution	0,02 °C
Temperature accuracy	± 1 °C without certificate / ± 0,25 °C with Accredia traceable certificate (valid in the calibration range)
Sensor type	NTC
Memory (n. of acquisitions)	16.383
Acquisition step	From one every 5 minutes up (in steps of 1 minute)
Display size	
Display and functions	Current values, Alarms, Diagnostics, Radio Signal Strength
Alarms	Local (acoustic)
Functions	Data recording, transmission, alarm
Communication	Radio
Protocollo Radio	LoRa
Available frequencies	868 MHz, 915 MHz, 920 MHz, 923-2 MHz
Antennae	Internal
Battery type	3 X AA 1,5 V batteries
Battery life	18 months with 15 minutes transmission step
Protection degree	IP65
Software&Mobile App	TSLog 21
Regulation compatibility	CE, ROHS
Regulation compatibility	FDA 21 CFR Part 11, Annex 11, GAMP 5