

Technical Information **

Power supply	8,5A/h - 3,6V type "C" lithium internal battery
Battery life (*)	Up to 10 years (samples every 10 minutes and radio signal quality at least sufficient)
Measures acquired (2 channels)	NTC10KΩ BETA 3977 sensor input
Sampling interval (*)	Selectable from one minute to 24 hours (10 minutes default)
Datalogger capacity	128,000 samples (for each channel)
Working temperature	<ul style="list-style-type: none">Operative: -30°C ÷ +60°CWarehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight (can be extended using WR12 battery powered routers)
Sealing	IP65
Dimensions	90 x 120 x 50mm
Weight	350g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless/USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm ² / ÷ 14 AWG



Wireless Smart Datalogger.

The **WSD12-TT10KB1** is a **datalogger** with 2 input channels to acquire surface temperature using NTC10KΩ BETA 3977 transducers, with storage functionality of samples acquired.

The radio module based on **WINECAP™** protocol provides an excellent radio range and a very low battery consumption.

With a backup memory onboard may store the last 128,000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the **basestations** of [MWDG](#) product line
- all the **basestations** of [MWLI](#) product line

If necessary, radio coverage may be extended using up to 32 [WR12 routers](#) (maximum 16 for each path) between the **datalogger** and the **basestation**.

NTC10KΩ BETA 3977 inputs

Transducer type	NTC10KΩ BETA 3977 (2 wires)
Measure range	-50°C ÷ +105°C
Measure accuracy	± 0.5°C @ 40°C
Measure resolution	0.01°C
Connection	Internal terminal block
Sensor input	From 0 to 4.5mm Ø cable clamp

* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

** Available with ACCREDIA calibration certificate or manufacturer certificate.

The features shown may be subject to change without notice.