

NUVATHINGS

STR4TA SERIES



- IOT datalogger for tracking and static applications
- IP67 housing with Internal battery.
 - Two cable glands
 - Integrable STH21/BME280 probe.
- Primary battery option: 3 x AA batteries
 - EN91 Alkaline 2800mAh / 4.5V.
 - L91 Lithium 3500mAh / 5.1V.
 - LiSoCl2 2700mAh / 10.8V.
- Wide range of integrated sensors with full modelization and configuration from cloud.

The STR4TA tracker and datalogger series combine state of the art design, with best in class low consumption GNSS module, with seamlessly NUVA cloud integration, common pplications for this device include:

- Analog sensor monitoring.
 - Water, gas, and electricity.
 - Smart agriculture
 - Environmental for smart cities
- Smart lightning control gear.
- Tracking for cold chain monitoring
- Vehicle and machinery tracking.
- Cattle tracking.

MODELS

MODEL	COM	PROBE	BATTERY
STR4TA-L	LORA	External	3 x Alkaline or 3 x LiSOCl2

PLUGIN AND PROBE OPTIONS

- FSHT21 Temp/Hum sensor probe
- BME280 Temp/Hum/Presure sensor module
- GYUL53L0X Time of flight distande sensor
- MAX 31865 Module for direct measure of PT100 sensors
- I2C OLED display for external powered devices.

Main technical features:

- LORAWAN communications
- Low power GNSS receiver for Cellular modules.
- Optional external power input: 8 to 36 VDC.
- 2 digital/analog inputs:
 - 4..20 mA sensors
 - o 0-10V or 0-3V analog sensors.
 - o pulse counters.
- Digital bus enabled for:
 - o RS485 MODUS
 - o SDI12
 - UNE 82326 water measure bus.
- 1 versatile analog output capable of powering external Sensors up to 12V.
- 0.1% voltage reference for auto-calibration of AD conversion, to reduce overall measure error on analog inputs within 0.2%.
- 1 x I2C ports for low power analog plugins and probes
- 1 x SPI port for low power analog plugins and probes
- Internal memory of 126K and 32 bits measures
- 10uA average, standby consumption.l



WIRELESS RADIO

where available there is option for LORAWAN low power radio tracker.

INNOVATIVE FEATURES:

In combination with other devices of Nuvathings ecosystem, a full range of IOT and industry 4.0 system can be achieved with options for:

- BLE asset tracking
- EDGE alarm triggers processed in the device.
- GPS machinnery trackers.
- Cold chain monitoring
- Security and access control.
- Custom devices available on request.

For more information on any of our products or services please visit us on the Web at:

www.nuvathings.com

or simply e-mail us at info@nuvathings.com

C/Murcia 35F 08830, Sant Boi de Llobregat Barcelona, Spain phone: + 34 93 018 51 34 www.nuvathings.com

FEATURE SUMMARY

SHT21 PROBE	Temperature range	-30°C/+85°C (-22°F/+185°F)	
	Temperature resolution	0,1°C	
	Temperature precision	±0.4°C from –15°C a +85°C	
Impact Sensor		Programmable Built in accelerometer 4G range	
GNSS receiver	GPS Frequency	1575.42 Mhz	
	GLONASS frequency	1601.71 MHz	
LORA	Freq / Power	LORAWAN-EU / 14dBm	
Impact Sensor	Internal 4G range.	Configurable trigger	
Device functions	Configuration	From cloud platform	
	Alarm configuration	Cloud based	
	Alarm processing	Edge on device	
	Internal device logging	126K x 32 bits register	
	Analog data register	Configurable from 1 minute (5 default)	
	GNSS data register	Configurable from 1 minute (5 default)	
	Transmission cadence	Configurable from 1 minute. (30 default)	
Mechanical and	Battery (recommended)	3 x AA lithium LiSOCl2 options.	
electrical	Size	80 x 40 x 30mm	
	Weigth	250 gr aprox with batteries.	
	Operating temperature	-30°C / +85°C (-22°F/5°F)	
	Operating humidity	0 - 90% HR, no condensation.	
Rules and	EN 12830	Dec conformity	
normatives	Wellmec	Class C	
	EN 13485	Dec conformity	
	EMC + SAFETY	IMQ certification	
	RED	In progress.	
	FCC	In progress	
Battery lifetime 3 x AA Lithium LiSOCI2	GNSS each 5 minutes, and LORA transmission each 30 min.	24 month with 8h @day movement.	

Battery life depends on temperature and duty operation cycles, this data is only indicative.

