

B-CIRRUS-GP TRACKING SERIES



The CIRRUS 4T tracker and datalogger series combine state of the art design with seamlessly NUVA cloud integration. The following models are available depending on communications power options and integrated sensor.

MODEL	COM	PROBE	BATTERY
BR-CIRRUS_GP	GPRS	external	Rechargeable Lipo 1.5Ah
BP-CIRRUS-GP	GPRS	external	Internal battery holder for 4xAA
BSR-CIRRUS-GP	GPRS	Built in SHT21 probe	Rechargeable Lipo 1.5Ah
BSP-CIRRUS-GP	GPRS	Built in SHT21 probe	Internal battery holder for 4xAA
BR-CIRRUS-TP	EGPRS / NB-IOT / LTE-M1	external	Rechargeable Lipo 1.5Ah
BP-CIRRUS-TP	EGPRS / NB-IOT / LTE-M1	external	Internal battery holder for 4xAA
BSR-CIRRUS-TP	EGPRS / NB-IOT / LTE-M1	Built in SHT21 probe	Rechargeable Lipo 1.5Ah
BSP-CIRRUS-TP	EGPRS / NB-IOT / LTE-M1	Built in SHT21 probe	Internal battery holder for 4xAA

- IOT datalogger for tracking applications
- IP65 housing with Internal battery.
- Rechargeable option: Internal 7.4V 1500mAh LIPO Battery pack, enables the device to work for 2 months without recharge .
- Primary battery options: 4 x AA battery holder
 - EN91 Alkaline – 2800mAh / 6V.
 - L91 Litium – 3500mAh / 6.8V.
 - LiSoCl2 – 5400mAh / 7.4V.
- Wide range of integrated sensors with full modelization and configuration from cloud.
- VPN Simcard provided for cellular models with national, europe and worldwide coverage options.

Main technical features:

- GPRS / NB-IOT / LTE-CAT-M1 / LORA communications options
- GNSS receiver.
- 3 digital/analog inputs:
 - 4..20 mA sensors
 - 0-10V or 0-3V analog sensors.
 - pulse counters.
- Digital UART input
- 1 Opto isolated input
- 1 analog 0-10V Output.
- 0.1% voltage reference for auto-calibration of AD conversion, to reduce overall measure error on analog inputs within 0.2%.
- RS485 with MODBUS (optional).
- 2 x I2C ports for low power analog probes
- Internal memory of 126K and 32 bits measures
- 60uA average, standby consumption..

FEATURE SUMMARY

TEMPERATURE PROBE FSHT20	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
EGPRS	Bands	850 / 900 / 1800 / 1900 MHz
NB-IOT / CAT-M1	Bands	B1/B2/B3/B4/B5/B8/B12(B17)/B13/B18/B19/ B20/B25Ⓞ/B26*/B28/B39 (B39 for Cat M1 only)
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 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 electrical	Battery	4 x AA, alkaline of lithium options.
	Size	125 x 75 x 45mm
	Weigth	350 gr aprox with batteries.
	Operating temperature	-30°C / +85°C (-22°F/5°F)
	Operating humidity	0 - 90% HR, no condensation.
Rules and normatives	EN10830	Dec conformity
	Wellmec	Class C
	EN 13 485	Dec conformity
	EMC + SAFETY	IMQ certification
	RED	Dec conformity
	FCC	In progress
Battery lifetime 4 x AA energizer EN91	GNSS each 5 minutes, and GPRS transmission each 30	2 month with 8h / day movement.
Battery lifetime 4 x AA energizer L91	GNSS each 5 minutes, and GPRS transmission each 30	3 month with 8h / day movement.
Battery lifetime 4 x AA Lithium LiSOC12	GNSS each 5 minutes, and GPRS transmission each 30	6 month with 8h / day movement.

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

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:

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