

Blyott Ruggedised Sensor BT-R1

RUGGED · IP68 · COLD CHAIN

Track assets where other sensors give up

The BT-R1 is a rugged, ultra-compact sensor designed for accurate monitoring in demanding environments. It features a waterproof casing and a long battery life.

Built with secure firmware, it is well suited to tracking sensitive or mobile assets with confidence.

Attach it to tools and equipment on construction sites, in warehouses and in factories — or embed it in reusable transport containers.

An IP68 casing and a heat-resistant CR2032W cell give the sensor a lifetime of up to seven years, and it withstands saltwater, salt mist, acids and 100% humidity.

The built-in temperature sensor is accurate to better than 0.5 °C, which makes the BT-R1 equally suitable for cold chain applications.



The BT-R1 is ultra-compact and fully sealed, so it survives the handling that a standard tag does not.

AT A GLANCE

Battery	CR2032W · up to 7 years
Protection	IP68
Dimensions	36 × 25 × 10 mm
Sensors	Temperature < 0.5 °C
Color	Black

A range of use cases

- ✓ Attach to tools or equipment in construction sites, warehouses or factories.
- ✓ Embed in reusable transport containers to track location and movement throughout supply chains.
- ✓ Start using immediately — no sensor activation required.

Order codes

- ✓ **BT-R1** — Ruggedised Sensor, black.

All specifications BT-R1

GENERAL

Battery reference	CR2032W (heat-resistant lithium ion battery)
Battery lifetime	Up to 7 years depending on the sensor configuration and usage
Broadcasting range	Up to 15 m / 590.55" (-5 dBm; RSSI @ 12 m / 472.44" = -100 dBm)
Location accuracy	Depends on the available Wi-Fi and BLE(*) infrastructure
Temperature accuracy	Temperature sensor with an accuracy of < 0.5°C / 0.9°F

(*) The Blyott solution is compatible with Wi-Fi APs enabled with Bluetooth® technology from various vendors. Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

PHYSICAL

Dimensions	36 mm / 1.41" (width) x 25 mm / 0.98" (length) x 10 mm / 0.39" (height)
Colors	Black
Casing	Highly durable casing for temperatures up to 85°C

CHEMICAL AND MECHANICAL

Operating temperature	-20°C to +85°C / -4°F to +185°F
Humidity	100% (up to 80°C / +176°F)
Environmental and chemical properties	Saltwater, salt mist, acetic acid water, carbonated sodium water, sugared water, ethylene glycol
Certificates	IP68, CE-RED (incl. safety, RF, EMC, SAR), FCC and ROHS

BT-R1 · V26R01

About Blyott

Blyott — a simac PHI DATA brand — is at the forefront of transforming industries with innovative localization and monitoring solutions. Our platform integrates advanced data analytics and AI, helping healthcare and logistics teams enhance efficiency, foster staff well-being and achieve sustainability goals.

-  **EASY TO SET UP**
Works in a matter of minutes.
-  **SCALABLE**
Scale to millions of assets.
-  **PAY-AS-YOU-GROW**
Custom plans are available.
-  **OPEN STANDARD**
Integrate using REST APIs and webhooks.



www.blyott.com

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Get in touch at

info@phidata.be