Xsense® 2G & Cat-M1(4G) Datalogger for Real-Time Cold Chain Monitoring

Introduction

The Xsense® 2G & Cat-M1(4G) datalogger is a compact device for real-time monitoring. It records temperature, relative humidity, Light, and location. It comes with a cellular SIM card pre-installed and pre-activated. It contains an internal rechargeable battery.

It is simple to use. Register your shipment in Xsense® and associate the datalogger with the shipment. Turn on the data logger. Place it on the products to be monitored. And watch it go on its way.

Of course, the datalogger comes with access to Xsense® Cloud which Xsense® is famous for:

- ☐ Trip segmentation
- ☐ Smart data access security
- ☐ Automatic alerts
- ☐ Automatic notifications at destination and waypoints

- ☐ Route tracing
- ☐ Quality metrics
- ☐ In-app messaging and alerts (Android and iOS)
- ☐ Post-analysis reports

Stay informed anywhere, anytime.

Applications

- ☐ One-way shipments
- ☐ Round-Trip shipments
- ☐ Monitoring of fixed locations

Highlights

☐ GPRS geo-location tracking allows for real-time monitoring and estimation of arrival times

☐ Up to 20,000 hours of historical readings; when the cellular network is not available, the datalogger stores readings until the reconnection to the cellular network.

Specification

20-200 days depending upon the logging interval

Model Number	C4GC2THL33R
Dimensions	90mm x 64mm x 27mm / 3.55in x 2.52in x 1.07in
Weight	150g / 5.3oz
Battery	Rechargeable lithium 3.7V / 4400mAh
Battery recharge time	8 hours – to fully recharge
Battery lifetime	20-200 days, depending upon the logging interval
Logging interval	5,15,30,60 minutes
Cellular	Built in GSM/CAT-M1/NB-IOT antenna, EXS82-W chip, **CAT-M1:** 700 (Bd12, Bd13, Bd28, Bd85), 800 (Bd18, Bd19, Bd20, Bd26, Bd27), 850 (Bd5), 900 (Bd8), AWS-3 (Bd66), AWS-1 (Bd4), 1800 (Bd3), 1900 (Bd2, Bd25), 2100 (Bd1) MHz **NB-IOT:** 600 (Bd71), 700 (Bd12, Bd13, Bd28, Bd85), 800 (Bd18, Bd19, Bd20, Bd26), 850 (Bd5), 900 (Bd8), AWS-3 (Bd66), AWS-1 (Bd4), 1800 (Bd3), 1900 (Bd2, Bd25), 2100 (Bd1) MHz **GSM** :850/900/1800/1900MHz
SIM card	Pre-installed Standard mini SIM card
Operating Life	Single-use/Reusable
Memory capacity	20,000 readings
Temperature range	-40°C to +125°C
Operating Range	-20°C to +60°C
Temperature precision	± 0.3°C (from -20°C to +60°C) / ±0.54°F (from -4°F to +140°F)
Temperature Resolution	0.1°C / 0.18°F
Humidity range	0% to 90% (± 3%)
Humidity precision	NIST® compliant: ±3% (from 20% ~ 90%)
LEDs	Two LEDs, Status & Charge
Calibration	Temperature and Humidity sensors are calibrated at the time of manufacture.
Sensors	Temperature, Humidity, Light
Light Sensor	Light (Door open) > 42 Lux