SPECTRO COLD®

An advanced **end-to-end** IoT solution for monitoring temperature and humidity in stationary or mobile coolers.

Latest technology for monitoring assets location and measuring compressor health.

Why SPECTRO COLD®?

FLEXIBLE

Modular design with multiple options for sensors and features according to business need and desired communication technology.

RELIABLE

Robust hardware with **highly reliable** performance and long lifetime.

SCALABLE

Scalable platform deployed on-prem or over the cloud with ease of implementation expansions and integrations any time.

SMART

Intuitive dashboard with comprehensive views and **smart built-in reports** and analytics.

KEY FUNCTIONALITY

- Temperature Monitoring
- Humidity Monitoring
- Light Monitoring
- Door Status
- Location Tracking
- Movement Detection
- Compressor Health
- Support Request Automation

KEY FEATURES

- Multiple connectivity options.
- Bluetooth smart capability.
- IP65 rated enclosure.
- None intrusive easy installation.
- Multiple external sensor interfaces.
- Real-time monitoring and dynamic alarms.

SPECTROCOLD® comes with different units to obtain maximum business value for different use cases

User Interface Unit

Main Sensor Gateway

Compressor Health Unit

In-Fridge Unit

Technical Specifications

Sensor Gateway

Cellular Networks	Option 1: [SKU: SPGW201] - 2G: GSM/GPRS Quad-band 850/900/1800/1900MHz Option 2: [SKU: SPGW401] - 4G: LTE CAT-M1/NBIoT Quad-Band FDD-LTE B1/B3/B5/B8 - 2G: GPRS/EDGE 900/1800 MHz Option 3 [SKU: SPGW301]: - 4G: LTE CAT4 FDD B1/B3/B8, TDD B38/B39/B40/B41 - 3G: UMTS/HSDPA/HSPA+ B1/B8 - 2G: GPRS/EDGE 900/1800 MHz
WiFi	Protocol: 802.11 b/g/n (802.11n up to 150 Mbps) Frequency: 2.4 GHz ~ 2.5 GHz
Bluetooth	v4.2 BR/EDR and BLE specification
Satellite Positioning	GNSS (GPS/GLONASS/Galileo/BeiDou)
Power Supply	110 to 240VAC
Working Temperature	-20 to +60°C
Enclosure IP rating	IP65
Dimensions	200x94x51 mm [LxWxH]
SIM Card slot	Nano size SIM card slot.
Backup battery	Li-Ion 3.6VDC 3200mAh

In-fridge unit [SKU: SCTHL-01]

Link type	Bluetooth low energy
Temperature range	-40 to +60°C
Temperature accuracy	+/-0.2°C
Humidity range	0 to 100%RH
Humidity accuracy	+/-1.8%RH
Light range	1 to 65535lx
Light accuracy	1lx
Power supply	2x AA 1.5V Primary cells
Dimensions	60x58x28mm [LxWxH]
Battery life	> 7 years

Compressor health monitoring unit [SKU: SCCH-01]

Link type	RS232
Temperature range	-40 to +85°C
Temperature accuracy	+/-2°C
Vibration sensitivity range	±2g, ±4g, ±8g modes
AC current range	0 to 100A
Dimensions	41x41x20mm [LxWxH]

User interface unit [SKU: SCUI-01]

Link type	RS232
Working temperature	-40 to +85°C
Supported RFID card types	13.56 MHz ISO/IEC 14443 A/MIFARE cards and NTAG
Dimensions	85x55x35mm [LxWxH]

Request a demo at www.spectro.net

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Who We Are

SITEC has established itself as a leading Value-Added Distributors and Service Providers of information and communication technology. SITEC is a customer focused company serving the Middle East and Africa, with physical offices in Dubai, Jeddah, Riyadh, Amman and Cairo. SITEC works through more than 400 channel partners in over 18 countries.

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