



IDEN TEC SOLUTIONS' i-Q350 FL sensors are designed to be cost effective, easy to implement and offer maximum flexibility. Using advanced UHF radio frequency technology, i-Q350 FL sensors transmit and receive data at distances of up to 250 m (800 feet).

The i-Q350 FL sensors offer an attractive price for continuous monitoring and optimization of logistics in the supply chain.

The main applications are:

- Access control
- Tracking of Vehicles and Containers
- Online inventory
- Identification of assets or personnel at specific areas

Using advanced UHF radio frequency technology, i-Q350L FL sensors transmit and receive data at distances of up to 250 m (800 feet). In addition, they can be easily configured to beacon data at a rate range of up to 500 m (1600 ft).

With an integrated LED, the sensor supports visual recognition, such as, "pick by light" applications. The light is visible from almost every direction.

BENEFITS

- **UHF operating frequencies.**
Sensors are available for both standard North American and European frequencies.
- **Industrial housing.**
Durable in the most demanding environments.
- **Beacon communication mode.**
Automatically transmits data over a range of up to 500 m (1600 ft).
- **Response communication mode.**
Data can be written/read from the sensor over a range of up to 250 m (800 ft).
- **LED.**
Provides visual identification of an addressed sensor ("pick by light").
- **10,000 Bytes memory.**
Stores user and process information as well as temperature data onto the sensor to provide real-time tracking. Can be used as an electronic packing slip or shop traveler.

FEATURES

- UHF operating frequencies
- Non-line-of-sight data transmission
- Industrial housing
- Beacon communication mode
- Response communication mode
- LED
- 2000-simultaneous sensor identification
- Extended battery lifetime



i-Q350 FL SENSOR



IDEN TEC SOLUTIONS delivers innovative wireless sensor technology and systems that are helping transform the way businesses manage industrial processes and safeguard lives.

Committed to developing industry-leading, low power and long-range sensor based solutions, IDEN TEC SOLUTIONS' SensorSMART networks have been setting the industry standard since 1999.

Currently deployed on every continent throughout the globe in the Ports & Terminals, Oil & Gas, Tunnel & Mining, and Government & Defense industries as well as sought out by the world's leading system integrators and governments; IDEN TEC SOLUTIONS patented technology is helping to optimize productivity in some of the continent's most challenging situations. Robust, flexible and powerful IDEN TEC SOLUTIONS technology delivers when others cannot.

IDEN TEC SOLUTIONS is privately held, with its corporate office located in Lustenau, Austria, and North American headquarters in Dallas, Texas, along with service centers in Germany, Australia and Norway. For more information, please visit www.identecsolutions.com.

WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment. Contents subject to change without notice.

TECHNICAL SPECIFICATIONS

Communication Broadcast 350

| | |
|---------------------|--|
| Operation Mode | Transmits Sensor ID and user data in pre-defined interval up to 500m (1600ft)* |
| Read Range | i-PORT M350, i-CARD CF 350 and i-PORT 4-350 |
| Compatibility | 868 MHz (EU) or 920 MHz (NA) |
| Operating Frequency | <1mW |
| Transmit Power | |

Communication Response 350

| | |
|---------------------|--|
| Operation Mode | Bi-directional communication (reading log, blink LED, write/read data) up to 250m (800ft)* |
| Read Range | i-PORT M350 and i-CARD CF 350 |
| Compatibility | 868 MHz (EU) or 920 MHz (NA) |
| Operating Frequency | <1mW |
| Transmit Power | |

* The communication range depends on the antenna type, the antenna cable runs and the environmental conditions.

Data

| | |
|---------------------|------------------------------|
| Data Retention | > 10 years without power |
| Write Cycles | 100,000 writes |
| Memory Size | 10,000 Bytes user defineable |
| Identification Code | 48 bit fixed ID |

Configuration

| | |
|---------------------|--|
| Device | i-PORT M350 or i-CARD CF350 |
| Ping Rate | Configurable from 0.5 to 300 seconds in steps of 0.5 seconds |
| Number of Bursts | Configurable from 0 to 15 |
| Broadcast User Data | Up to 50 Bytes |

Electrical

| | |
|--------------------|-----------------------------------|
| Power Source | Lithium Battery (non-replaceable) |
| Battery Monitoring | Yes |

Environmental Conditions

| | |
|-----------------------|---|
| Operating Temperature | 10% to 95% relative humidity @ 30°C |
| Humidity | Multiple drops to concrete from 1m (3ft), 3 times DIN IEC 68-2-27 |
| Shock | 3G, 20 sine wave cycles, 5 to 150 Hz, DIN IEC 68-2-6 |
| Vibrations | 5G, noise 5 to 1.000 Hz, 30 minutes, DIN IEC 68-2-64 |

Standard/Certification

| | |
|---------------|--|
| Europe | CE (EN 300 220-1, -3; EN 301 489-1,-3; EN 60950) |
| North America | FCC Part 15 (US); Industry Canada |

Mechanical Data

| | |
|--------------------|---|
| Dimensions | 137 × 38 × 27 mm (5.4 × 1.48 × 1.04 inches) |
| Enclosure Material | Plastic |
| Enclosure Rating | IP 65 |
| Weight | 50 grams (1.75 ounces) |



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