



The brand new i-Q350 series of tags combines the features of IDENTEC SOLUTIONS' well-established i-Q and i-B series. In addition the i-Q350 series tags provide an even larger communication range of up to 500 m.

ILR provides highly accurate, real-time data collection without human intervention in wireless applications such as:

- identification
- tracking and tracing

- localization and
- temperature monitoring.

Using advanced UHF radio frequency technology, i-Q350T SL tags transmit and receive data at distances of up to 250 m (800 feet). In addition they can be configure to beacon data at a configurable reat to a range of up to 500 m (1600 ft).

The i-Q350T SL tag contains an internal sensor for temperature monitoring in order to measure and log the temperature of goods in definable intervals. It is also available with external sensors.

With its LED, the tag supports visual recognition, such as, for example, for "pick by light" applications.

## **Features**

LED

Industrial housing

10,000 Bytes memory

## Benefits

- Tag operates in beacon mode
  In this configurable operation mode the tag can automatically transmit date over a range of up to 500 m (1600 ft).
- Tag operates in response mode
  In this standard operation mode data can be written onto or read from the tag over a range of up to 250 m (800 ft).
- 2000-tag simultaneous identification
  Large numbers of tags can be identified virtually simultaneously.
  - Provides visual identification of an addressed tag ("pick by light").
    - Durable in demanding environments.
  - Temperature logging Measures and logs the temperature of goods in definable intervals.
    - Stores user and process information as well as temperature data onto the tag to provide realtime tracking and tracing. Can be used as an electronic packing slip or as an electronic shop traveler.
- UHF operating frequencies
  Allows low-power, long communication range and high data transmission rates with minimal interference due to local conditions.
  - 6 year battery lifetime Delivers long-time maintenance-free operation, without battery replacement.
- Non-line-of-sight data transmission
  Allows tags to be identified without the need of visual contact.
- European and North American versions





## **IDENTEC SOLUTIONS**

IDENTEC SOLUTIONS is the global leader in active wireless tracking solutions. A commitment to developing aroundbreaking, industry-specific tracking solutions featuring proprietary patented has placed IDENTEC technology SOLUTIONS in the international forefront as a technology provider for innovation and as a complete solution provider in the automotive, oil, gas and mining industries

Utilized by the world's leading organizations and system integrators, IDENTEC SOLUTIONS' award-winning technology portfolio offers robust, highly effective tracking solutions that manage critical process and optimize supply chain flow. Privately held since 1999, IDENTEC SOLUTIONS has provided asset management solutions and support to a variety of organizations, including an impressive roster of Fortune 500 clients such as Volkswagen, Audi, Deutsche Post and General Electric. Headquartered in Lustenau, Austria, the company's North American headquarters are located in Dallas, Texas, with customer service centers in Germany, Australia and Norway. For more information, please visit:

www.identecsolutions.com.

Information in this document is subject to change without notice and becomes contractual only after written confirmation by IDENTEC SOLUTIONS.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### WARNING: Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

"IDENTEC SOLUTIONS", "Intelligent Long Range", "ILR", "I-LINKS", "I-Q", "I-D", "I-B", "I-CARD", "I-PORT", "Solutions. It's in our name,", "Smarten up your assets." and the stylized "I" are trademarks or registered trademarks of IDENTEC SOLUTIONS, Inc. and/or IDENTEC SOLUTIONS AG.

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# **Technical Data**

## **Operating Data**

Operating frequency ILR-RFID Maximum transmission power Compatibility Standards/Certification 868 MHz (EU) or 920 MHz (NA), further frequencies on request 0.75mW (EU / NA) i-PORT M 350, i-CARD CF-350 FCC Part 15 (US), ETSI EN 300 220 (EU)

### Communication Data Long-Range RFID (ILR, Response Technology)

Multiple tag handling Read/write range response mode Data rate response Up to 2,000 tags in the read zone Up to 250 m (800 feet), free air\* 19.2 to 115.2 kbits/s

#### Communication Data Long-Range RFID (ILR, Beacon Technology) Read range broadcast Up to 500 m (1600 feet) free air\*

115.2 kbits/s

Yes

Read range broadcast Operation mode Repetition rate (ping rate) Data rate broadcast

## Electrical

Power source Battery monitoring

### **Temperature Logging**

Number of samples Logging interval Measuring interval Metering range

Resolution Accuracy

## Data

Data retention Write cycles Memory size Identification code

## **Environmental Conditions**

Operating temperature Humidity Shock

Vibration

#### **Physical**

Dimensions Enclosure Weight Enclosure rating

#### **US Patent Technology**

United States Patent No. 6,563,417 United States Patent No. 7,053,777 Lithium battery (not replaceable)

Transmits marker information in at regular intervals

0,5 - 300 seconds, adjustable in steps of 0,5 seconds

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

10,000 User definable in intervals from 1 to 255 min User definable in intervals from 0 s to 255 min  $-40 \degree$ C to  $+85 \degree$ C ( $-40 \degree$ F to  $+176 \degree$ F) with std. internal sensor  $-80 \degree$ C to 100  $\degree$ C ( $-112 \degree$ F to  $+212 \degree$ F) with std. external sensor Other metering ranges are available on request  $0.1 \degree$ C ( $0.2 \degree$ F)  $\pm 0.5 \degree$ C ( $1 \degree$ F) from  $-20 \degree$ C up to  $+50 \degree$ C,  $\pm 1 \degree$ C ( $2 \degree$ F) in the remaining temperature range

> 10 years without power
 100,000 writes to a tag
 10,000 Bytes user definable
 48 bit fixed ID

-40 °C to +85 °C (-40 °F to +185 °F) 10 % to 95 % relative humidity @ 30 °C 50 G, 3 times DIN IEC 68-2-27 Multiple drops to concrete from 1 m (3 ft) 3 G, 20 sine wave cycles, 5 Hz to 150 Hz, DIN IEC 68-2-6 5 G, noise 5 Hz to 1000 Hz, 30 minutes, DIN IEC 68-2-64

131 mm  $\times$  28 mm  $\times$  21 mm (5.2 in.  $\times$  1.1 in.  $\times$  0.85 in.) Plastic (Qinnacryl) 50 g (1.75 ounces) IP 65



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