



i-PORT M 350-2 READER



IDENTEC SOLUTIONS' i-PORT M 350 SensorSMART readers enable automated data collection that is easily integrated into advanced information systems.

SensorSMART provides highly accurate, real-time data collection with minimal human intervention in wireless applications such as;

- Identification
- Tracking
- Localization of high value assets and personnel
- Temperature Monitoring

In addition, the two antennas eliminate dead RF spots.

The unique, highly sophisticated anti-collision algorithm guarantees identification of thousands of sensors located within the interrogator's read zone. The high rate of transmission allows communication even with rapidly-moving tagged objects.

Using advanced UHF radio frequency technology, the i-PORT M350-2 communicates at distances of up to 500 meters (1600 ft). In

BENEFITS

- **Communication with response sensors.**
The i-PORT M350 offers the ability to adjust the read/write range with i-Q350 sensors from a range of < 1 meter (3 feet) up to 250 m (800 ft).
- **Collecting data from beacon sensors.**
The i-PORT M350 can detect the broadcast messages of i-Q350 sensors from a distance of up to 500 m (1600 ft).
- **2000-sensor simultaneous identification.**
Large numbers of sensors can be identified virtually simultaneously.
- **Data interface master/host.**
i-BUS (RS422), Ethernet or WLAN.
- **Data interface slave.**
i-BUS (RS422); allows daisy-chaining of several Readers to a host interface; also provides for only one connection for power supply and data transmission.
- **Industrial housing.**
Durable in the most demanding environments.

FEATURES

- Communication with response sensors
- Demand only communication
- Collecting data from beacon sensors
- Communicates with all i-Q350 and i-B350 sensors
- 2000-sensor simultaneous identification
- Data interface master/host
- Industrial housing
- Data interface slave

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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	Receiving Sensor ID's and Data
Read Range	up to 500m (1600 ft)*
Compatibility	i-B350 and i-Q350 series of sensors
Operating Frequency	868 MHz (EU) or 920 MHz (NA)

Communication Response 350

Operation Mode	Bi-directional communication (reading log, blink LED, write/read data)
Communication Range	up to 250m (800ft)*
Compatibility	i-Q350 series of sensor
Operating Frequency	868 MHz (EU) or 920 MHz (NA)
Transmit Power	<1mW

Antennas

Broadcast/Response (350)	2 SMA connector for external antenna at 868 (EU) or 920 MHz (NA)
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Performance

Reader Buffer (Broadcast)	Up to to 400 sensors
Multiple Sensor Handling (Response)	Up to 500 sensors per read zone

Interfaces

Data Interface master/host	i-BUS (RS422) or Ethernet
Data Interface slave	i-BUS (RS422) for cascading additional i-PORT M's
Status Display	5 LED's (ANT 1, ANT 2, RUN, BUS, ERR)

Electrical

Power Source	10-30 VDC
Power Consumption	< 2 Watt

Environmental Conditions

Operating Temperature	-30°C to +70°C (-22°F to +158 °F)
Storage Temperature	-40°C to +80°C (-40°F to +176°F)
Humidity	90%, non-condensing

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	97 x 67 x 36 mm (3.8 x 2.6 x 1.4 inches) 153 x 67 x 36 mm incl. cover (6.0 x 2.6 x 1.4 inches)
Enclosure Material	Plastic
Enclosure Rating	IP 40; IP 64 with plastic cover
Weight	150 g (5.29 ounces)

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

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