



IDK-2000
RFID Reader

Multipurpose RFID Reader IDK-2000 IDK-8000

The Sensormatic IDK-2000 and IDK-8000 Multipurpose RFID Readers help retailers gain real-time visibility into inventory and assets to improve operations, optimize profitability and create a memorable shopper experience. Available in 2- and 8-port models, both with integrated remote device management capabilities, these devices deliver enterprise-class RFID performance and dependability when reading and writing RFID tags.

The IDK readers ensure high read rates and reliable data capture with dense reader mode and noise-cancellation features proven in retail deployments worldwide. The devices also conform to the EPC Low Level Reader Protocol (LLRP) standard and can be used with any compatible control system.

Using Power over Ethernet (PoE), a technology that passes electrical power and data safely over Ethernet cabling, reduces the cost and complexity of installation compared to dedicated power wiring, and minimizes space needed in existing conduits.

In the fitting room - IDK-2000 can power up to two individual antennas and IDK-8000 can power up to eight individual

antennas (wall or ceiling mounted) so retailers can monitor the presence of RFID-tagged items, improving loss prevention and capturing actionable data for this valuable conversion zone.

In transition areas - Multiple antennas can be connected to create a portal to monitor items at passing through a chokepoint or at impact doors to update inventory location.

At the POS and kiosks - Readers can speed checkout by integrating with existing POS systems, while providing item-level transaction visibility using the Sensormatic IDKM AM/RFID detacher or IDA-1000 Work Surface Antenna.

In the stockroom - as components of a workstation, a reader and antenna enable tagging received, transferred or returned merchandise, and transitioning items between zones for improved inventory accuracy.

Retailer Values

- // Drive consistent inventory accuracy with enterprise-class quality and reliability
- // Reduce installation costs and simplify wiring requirements with Power over Ethernet
- // Manage remotely over the network or locally using an Ethernet over USB connection, allowing for device health monitoring and maintenance
- // Supports industry-standard LLRP, enabling inbound and outbound Web

Service interfaces to accommodate new applications and use cases

- // Deployed in thousands of installations worldwide
- // Withstands dirt and electrical noise found in retail stores

Product Codes

IDK-2000-N1
2-port RFID Reader

IDK-8000-N1
8-port RFID Reader
North America 902-928MHz, FCC

IDK-2000-E1
2-port RFID Reader

IDK-8000-E1
8-port RFID Reader
Europe 865-868MHz, ETSI

IDK-2000-W1
2-port RFID Reader

IDK-8000-W1
8-port RFID Reader
Sub-band of 902-928MHz for China, Korea, Japan and more*

IDK-2000-W2
2-port RFID Reader

IDK-8000-W2
8-port RFID Reader
Sub-band of 902-928MHz for Australia, Singapore, Hong Kong, Taiwan, Brazil and others*

* Refer to IDK-2000/8000 Quick Start Guide for current list of approved countries

Product Compatibility

Sensormatic IDA-1000
RFID Work Surface Antenna (4dBiL)

Sensormatic IDA-3100
Beam Steerable RFID Antenna (6dBiL)
(except Korea)

Sensormatic IDKM-1000/1010
RFID SuperTag detacher (<-13dBiL)

Motorola AN480-CL66100WR RFID
Antenna (6dBiL)

EPC Gen2 Std. RFID Antennas and Tags

Specifications

Dimensions

Length 18.4cm (7.25in)
Width 19.0cm (7.5in)
Height 2.5cm (1.0in)
Weight 544g (1.2lbs)

Electrical

Powering Options: 24V DC, 1.7A ext.
power supply (included)
Power over Ethernet (PoE) IEEE 802.3at
(802.3af limits power to 27dBm)

Power Consumption

24 W maxAir Interface Protocol

Air Interface Protocol

EPCglobal UHF Class 1 Gen 2/
ISO 18000-6C

Transmit Power

+10.0 to +30.0 dBm

Receive Sensitivity

-82.0 dBm

IP Configuration

DHCP or Static IP configuration

Management Options

LLRP, embedded web GUI, telnet

Firmware Upgrade Options

Embedded web GUI
USB storage device
TrueVUE and Web GUI

On Board Storage

4Gb SD card slot

Connectivity

2/8 monostatic RP-SMA ports
1 USB Device (Type B) port
1 USB Host (Type A) port
2 RS-485 ports (RJ45)
GPIO 4 in puts/ 4 outputs (DE15)
1 x 10/100base-T (RJ45)
1 x 10/100base-T Ethernet switch (RJ45)

Environmental Constraints

Temperature Range

Operating -20°C to +50°C (-4°F to +122°F)
Storage -20°C to +85°C (-4° to +185°F)

Humidity

5% to 95%, non-condensing

Rating

Plenum-rated, UL-listed and complies with
UL-2043

Regulatory

North America (-N1)

EMC 47 CFR, Part 15
ICES-003
RSS-210
UL 60950-1
CSA-C22.2.60950-1

Europe (-E1)

EN 302 208
EN 301 489
EN 60950-1

Other (-W1 or -W2)

Refer to IDX-2000/8000 Quick Start Guide
at Sensormatic.com for current list of
approved countries.

CE This product is in conformity
with the following Directives: RTTE
(1999/5/EC), RoHS II (2011/65/EU),
and amendments. It also meets the
Substances of Very High Concern
requirements of the REACH Regulation
(1907/2006 and amendments).

