



## Synergy RFID Retrofit Panel

The RFID Retrofit Panel is a simple, cost-effective upgrade to the Sensormatic Synergy 2.0 and 2.5 ABS pedestals. This easy-to-install upgrade delivers Radio Frequency Identification (RFID) technology to existing Acousto-Magnetic (AM) systems to provide shrink and inventory visibility, in addition to protecting Electronic Article Surveillance (EAS) infrastructure.

The panel leverages software-controlled beam-steerable technology for directional reading of AM/RFID-tagged merchandise at the exit. This provides retailers with real-time visibility into their assets, while the detection system uses Sensormatic AM EAS technology for the highest level of theft detection.

When coupled with Tyco's TrueVUE software, the Synergy RFID Retrofit Panel delivers advanced functionality to increase inventory visibility, minimize markdowns, and replenish out-of-stocks, helping to maximize sales and increase customer satisfaction. Retailers also gain deeper insight into what, when, and how specific items go missing to help optimize store operations.

For standalone RFID applications, the retrofit panel can be installed onto the 2.0 and 2.5 ABS pedestals without the AMS9060 controller.

### Retailer Values

- // Provides a simple, cost-effective RFID upgrade to compatible AM pedestals
- // Protects EAS infrastructure investment and delivers advanced RFID functionality
- // Complements proven, reliable AM EAS technology with advanced RFID capabilities for item-level intelligence
- // Provides true directional sensing of RFID tag movement using beam-steering technology at exits, transition areas, or zones
- // Installs on single, dual, split and quad pedestal configurations
- // Integrates with TrueVUE software for advanced RFID functionality with real-time visibility into shrink and inventory accuracy

### Configured Product Codes

**IDSM20-NA-GR1U\***  
Cool Gray RFID Retrofit Kit, NA, Unidirectional

### IDSM20-EU-GR1U\*

Cool Gray RFID Retrofit Kit, EU, Unidirectional

### IDSM20-NA-GR1B\*

Cool Gray RFID Retrofit Kit, NA, Bidirectional

### IDSM20-EU-GR1B\*

Cool Gray RFID Retrofit Kit, EU, Bidirectional

\* Kits noted above are Cool Gray color and include: beam steerable antenna, antenna cover, and mounting hardware for one pedestal. Charcoal color items are available.

\*\* Synergy 2.0m and 2.5m ABS Pedestals are sold separately.

### Required Hardware

#### RFID Reader

##### IDX2000-N1

2-Port RFID Reader with Power Supply (NA)

##### IDX2000-E1

2-Port RFID Reader with Power Supply (Europe)

##### IDX8000-N1

8-Port RFID Reader with Power Supply (NA)

##### IDX8000-E1

8-Port RFID Reader with Power Supply (Europe)

**Product Compatibility**

- Synergy 2.0 ABS Pedestal
- Synergy 2.5 ABS Pedestal
- AM/RFID Hard Tags
- AM Hard Tags and Labels
- TrueVUE Software
- EPC Gen2 Class I RFID Tags  
(performance dependent on tag design)

**Specifications**

- Height** ..... 160.02cm (63in)
- Width** ..... 30.48cm (12in)
- Depth** ..... 38.10cm (15in)
- Weight** (Panel Only) ..... 3.9kg (8.5lbs)

**RFID Functionality**

**Beam Steerable RFID Antenna**

**Frequency Bands**

- US** ..... 902-928MHz
- EU** ..... 865-868MHz
- Polarization** ..... RHCP
- Gain** (center beam) ..... 6 dBiL
- Gain** (left/right beams) ..... 4.7 to 5 dBiL
- Beam angle** ..... ±20°
- Beam width** ..... 55°

**Electrical**

**Beam Steerable RFID Antenna**

Impedance (normal) ..... 50 Ohms

**Pedestal (Transmitter)**

Operating Frequency ..... 58kHz +/-200Hz  
 .....(sync pulse) 56kHz  
 Transmit Burst Duration ..... 6ms  
 Transmit Current mzx ..... 16A peak

**Burst Repetition Rate**

Based on 50Hz ac ..... 75Hz or 37.5Hz  
 Based on 60Hz ac ..... 90Hz or 45Hz

**Receiver**

Center Frequency ..... 58kHz

**Alarm**

Audio level ..... 83dBA

**Environmental Constraints**

**Beam Steerable Antenna**

Operating Temperature ..... -20°C to 65°C  
 (-4°F to 149°F)  
 Relative Humidity ..... 5 to 90%  
 non-condensing

**RFID Readers (IDX2000/8000)**

Operating Temp ..... -20° to 50°C  
 (-4° to 12°F)  
 Relative Humidity ..... 5 to 95%  
 non-condensing

**Pedestal**

Ambient Temp ..... 0°C to 50°C  
 (32°F to 122°F)  
 Relative Humidity ..... 0 to 90%  
 non-condensing  
 Enclosure ..... IPX0  
 Evaluated for altitudes less than 2000m  
 (6500ft).  
 DO NOT cover or block thermal cooling  
 air passages.

**CE** This product is in conformity with RoHS II Directive 2011/65/EU and REACH Substances of Very High Concern as defined in Regulation (EC) No 1907/ 2006 and subsequent amendments to both.

