

IS1001

READER



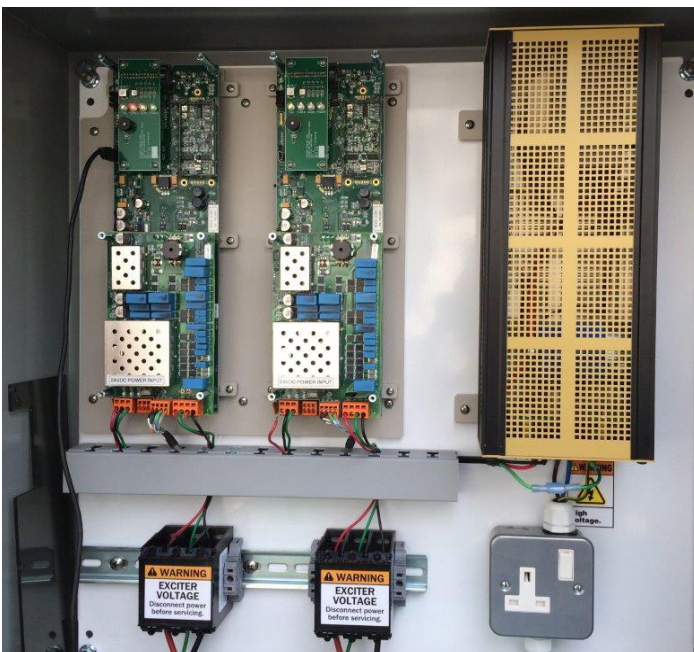
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The **IS1001** is a high performance autotuning reader, designed for applications requiring low power consumption and high adaptability to environmental changes. Its powerful antenna circuitry is capable of operating a large, low inductance antenna. The IS1001 operates in standalone or synchronized system configurations without the need for a Master Controller (MC). This adaptable functionality makes the IS1001 ideal for small-scale monitoring systems requiring one or two antennas. For applications requiring multiple antennas use the IS1001 with an MC in an MTS™ configuration.

FEATURES:

- Scalable and expandable
- Dynamic antenna auto-tuning
- 12V and 24V DC models available
- Adjustable antenna output power (24V model)
- Detection of ISO-compliant FDX-B and HDX PIT tags
- Automatic system performance diagnostics
- Internal memory for up to 100,000 tags and 1,000 reports
- USB port for local operation
- Field upgradeable firmware



Specifications	Description
Input Voltage	Model IS1001: 18-28 V DC. Model IS1001-12V: 10-15 V DC
Input Fuse	3A, rettable
Antenna Exciter Voltage	Model IS1001: 12-20 V DC, electronically adjustable, 5 steps. Model IS1001-12V: Fixed to 10 V DC
Reverse Polarity Protection	Yes
Under Voltage Protection	Yes
Over Voltage Protection	Yes
In-rush Current Limiting	Yes
Antenna Exciter Configuration	Full bridge
Antenna Current Limit	11.0 Ap-p, firmware enforced
Antenna Tuning	10 capacitors, electronically switched
Operating Frequency	134.2 kHz
Synchronization Capability	Antenna exciter clock synchronization, network configuration, hardwired twisted-pair interface*
Tag Technologies Decoding	ISO FDX-B, ISO HDX, Half-telegram FDX-B (non-ISO)
Internal Data Storage	100,00 tag IDs, 1,000 status reports*
External Data Storage (with optional accessory board)	Power (green), Tuned (red). Scan (yellow), Tag (white)**
Buzzer (with optional accessory board)	Piezo indicator, 4 kHz, 70 dB **
Operating Temp. Range	-4°F — 158°F (-20°C - 70°C)
Operating Humidity Range	10%-90%, non condensing
Weight Demensions	1.0 lbs. (0.45 kg) (w/o enclosure). 12.25"L x 3.75"W x 2.00"H (31 cm x 9.5 cm x 5cm) (w/o enclosure)



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