Versatile Loop Aerial System

Basic features:-
Hands free reading range (>3.0m)
High fidelity reading (1:100 million error rate)
Secure *digital* data exchanges
Tag pairing option
Multiple aerial capability
Direction sensing capability
Fast multiple (anti-clash) reading
Full reader diagnostics

RV1 Technical Specification:-

Output Formats: (RV1 - Standard.)	Wiegand 26 bits & Serial RS232	
(RVxx - Optional.)	Customised Wiegand, Clock & Data, RS422	
Physical Size:	325 x 285 x 65mm	*$12^7/_8$ x $11^1/_4$ x $2^5/_8$¨*
Weight:	2.1Kg	*4.63lbs*
Housing:	Light Grey painted aluminium case	
	Detachable lockable lid	
Temperature Specification:	-20°C to +60°C	*-4°F to 140°F*
Humidity:	0 - 80% non Condensing	
Power Requirements:	12 – 28 volts DC @ 400mA max.	
Fixing:	3 x No 8 Woodscrews or similar	
Memory:	Non volatile.	
Maximum Loop Size:	16m per head amp using 20 amp	
	(1.5mm diameter) copper wire.	
Read Range:	Determined by reader aerial/antenna.	
	Typically >3.0m Typically >$9^1/_2$ft	
	Based upon typical single door loop & TV1 tags	
Speed of Reading:	Determined by tag population and tag encoding	
	Typically 20 per second per antenna	
Operating Modes:	Customer selected – Dual or direction sensing	

iDENTEC ®
Radio Frequency Identification

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RV1 Product Description.

The Cyphertag RV1 use state of the art digital transmission technology. The system has been designed to provide the maximum flexibility and control to security OEMs and system integrators.

Each reader unit is supplied with a comprehensive diagnostic package enabling installers, commissioning engineers and OEMs to ensure the stated performance parameters are always achieved.

The basic unit is designed to manage two external single turn loop aerials/antenna.

The reading range is determined by the size of the loop aerial/antenna and the tag selected. The basic rule of thumb being the larger the loop and the larger the tag antenna the greater the reading range achieved.

The system is designed to provide fast and reliable reading of tags presented en masse. The speed of reading is dependent upon a number of factors but the typical rate for a continuous flow of tags is around 20 per second. The output data flow rate is variable and will depend upon the system to which the reader is connected. The output formats can be configurable within the reader by authorised OEMs and /or integrators.

The operating mode of the reader is selectable by the commissioning engineer, currently twelve standard configurations are provided. These enable the two loops to be set up as independent loops, or merged to provide direction sensing options for controlling a lock, or barrier, or simply tracking tags through open portals. Two addition options are provided for customer specific configurations.

If required two operating modes can be selected to alternate automatically as doors are unlocked during office hours (example: APB mode might be switch to Enhanced Tracking during normal office hours).

The sophisticated proprietary digital transmission system provides two very significant benefits, enhanced security and very high levels of noise immunity.

The Cyphertag architecture enables up to sixteen aerials to be added to a basic RV1 system, these can be designated as "in", "out" or "independent" loops, additional aerial drivers and output modules provide the maximum flexibility for system designers. The design enables any combination of the sixteen aerials/antenna (example: 14 loops configured as "out" readers and 2 configured as "in" readers will enable a funnel shaped atrium to be monitored with just two outputs to the management system).

For further information contact:-