

IR 8000, IR 8000 w

Idesco's new read and write RFID reader IR8000 operates at ultra high frequency area (UHF). This operating frequency brings multiple benefits: long operating distances, anticollision up to 100 tags in the field, identification of moving items, small antenna sizes.

This sophisticated reader is able to identify Atmel's new, passive TAGIDU chip, from a distance of up to 4 meters. This unbelievably long distance opens new applications for automatic identification: now it is possible to use RFID in logistics systems, warehouses, in identification of motor vehicles etc. All those applications, which have previously been impossible to implement with low or middle frequency based RFID-systems. In one phrase: anything you can imagine! Idesco's IR 8000 reader and Atmel's TAGIDU chip are commercial versions of the products developed in Palomar project.

An easy-to-use and practical user interface software is also available for Microsoft Windows® operating systems.

IR 8000 w has a Wiegand 26 bit output and it is able to read the unique ID number of the TAGIDU chip.



SPECIFICATION

Operating frequency	869 MHz
Output power	0,5W (27dBm)
Duty cycle	10 %
Voltage	15-30V (24V)
Current consumption	900mA (Appr.)
Serial Interface	
IR 8000	RS-485 (RS-232)
IR 8000 w	Wiegand 26 bit
Material of the housing	Aluminium, painted
Dimensions of housing	280x151x60 mm (hwxwd)
Protection class	IP67
ESD	4-6kV
Antenna	One external antenna for TX and RX
Leds	5 leds indicating operations
Frequency allocation	EAN_UCC
Field strength	EN 300 220
EMC	Meets CE requirements
Storage temperature range	-50 °C to + 150 °C
Operation temperature range	-30 °C to + 70 °C

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