Star RF30
iPASS IP30

Proximity Card Reader

IDTECK

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1. Important Safety Instructions

When using your Proximity Card Reader, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons.

In addition, the following should also be followed:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
4. Do not use this product near water, such as bath-tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or swimming pool.
5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
6. Never push objects of any kind into this product or through the cabinet slots as they may touch voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.
7. To reduce the risk of electric shock, do not disassemble this product by yourself, but take it to qualified service whenever service or repair is required. Opening or removing the covers may expose you to dangerous voltages or other risks. Also, incorrect reassembly can cause electric shock when the unit is subsequently used.
8. Unplug this product from the Direct Current (DC) power source and refer to qualified service personnel under these conditions:
   a. When the power supply cord or plug is damaged or frayed.
   b. If liquid has been spilled on the product.
   c. If the product does not operate normally after following the operating instructions in this manual.

      Adjust only those controls that are covered by the operating instructions in this manual. Improper adjustment of other controls that are not covered by this manual may damage the unit and will often require extensive work by a qualified technician to restore normal operation.
   d. If the product exhibits a distinct change in performance.

2. General

The Star RF30 / iPASS IP30 is an elegant looking and attractive 12"(30cm) read range proximity reader which can be mounted on any flat wall surface.

The Star RF30 / iPASS IP30 uses the electronics module in epoxy potting that ensures successful operations even in harsh environments. The two-color LED of green and red and the inside Piezo buzzer sound will guarantee you accurate and reliable system operations.

3. Features

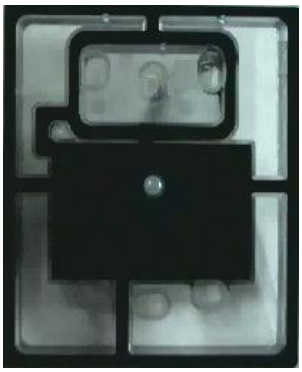
- 125KHz Proximity Card Reader
- Star RF30: PSK Modulation (IDTECK Format)
  iPASS IP30: ASK[EM] Format
- Read Range: 12 inches (30cm)
- User Format Available
- 26bit Wiegand (Default) / ABA Track II and RS232 (Optional) Output Format
- Dual Reading Technology (Active and Passive Cards)
- External LED Control and External Buzzer Control
- Solid Epoxy Potted
- Waterproof (IP65/IP66)
- Reverse Polarity Protection
- Lifetime Warranty
- Supervisory Signal (Optional)
- Compatible Controllers: iCON100, iTDC, Standalone Controllers, Third-Party Controllers

4. Specification

Model		RF30	IP30
CPU		8bit Microprocessor	
Read Range	Passive Type	IDK50 / IMC125: Up to 6 inches (15cm)	IPC80 / IPC170: Up to 12 inches (30cm)
		IDC170 / IDC80: Up to 12 inches (30cm)	
	Active Type	IDA150 / IDA200 Compatible	N/A
Reading Time (Card)		30ms	
Power / Current		DC12V / Max.350mA	
Input Port		2 Ports (External LED Control, External Buzzer Control)	
Output Format		26bit Wiegand (Default)	
		RS232 and ABA track II (Optional)	
LED Indicator		2 Color LED Indicators (Red and Green)	
Beeper		Piezo Buzzer	
Operating Temperature		-35° to +65°C (-31° to +149°F)	
Operating Humidity		10% to 90% relative humidity non-condensing	
Color / Material		Dark Pearl Gray / Polycarbonate	
Dimension (W x H x T)		4.8” x 5.7” x 0.8” (123mm x 144mm x 20.5mm)	
Weight		370g (0.82lbs)	
Warranty		Life Time	
Certification		UL, FCC, CE, MIC	

5. Identifying Supplied Parts

Please unpack and check the contents of the box.



Reader Module
(1ea)

RF30 / IP30 Bezel
(1ea)

User's Manual
(1copy)

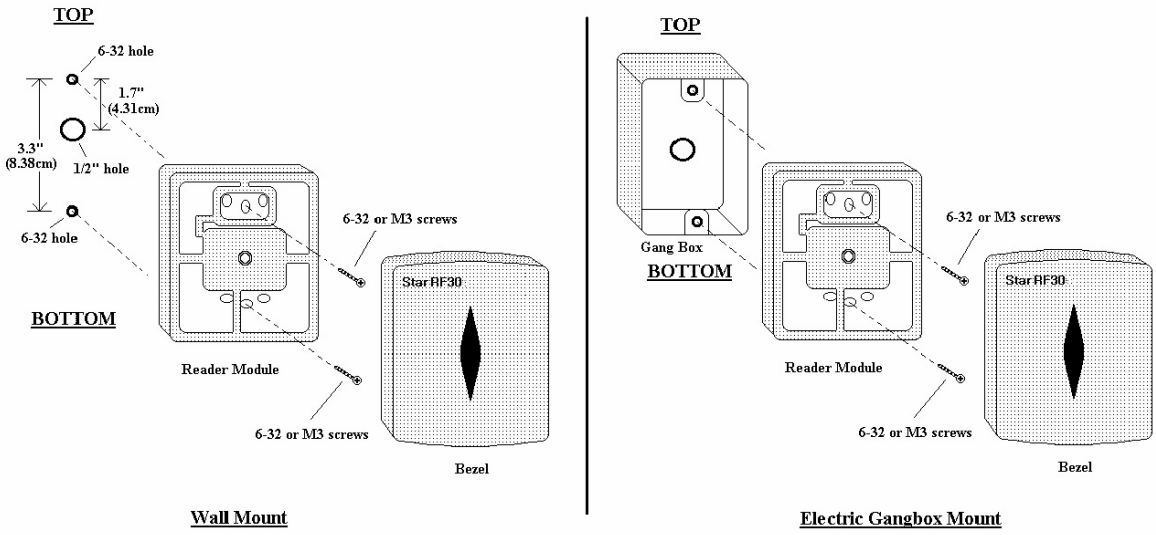
6. Installation

6-1. Wall Mount

Drill two 6-32 or M3 holes 3.3"(8.38cm) apart in vertical and drill one 1/2" hole for the reader cable 1.7"(4.31cm) apart from the top hole.
(If you have installed an electric gang box then skip this step and go to step 4.2.)

6-2. Put reader cable into the center hole and install the reader module by using two 6-32 or M3 screws (Not included).

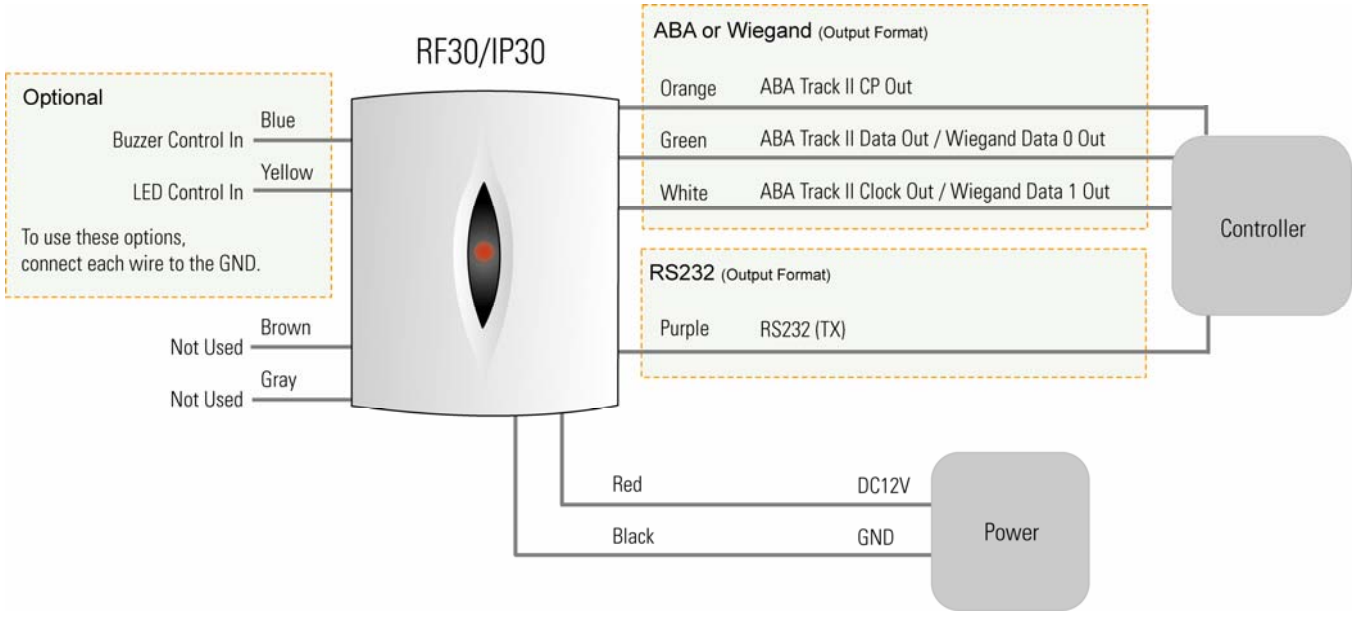
6-3. Put bezel on to the reader module then push bezel until you hear the locking sound.



7. Wire Color Table of the Reader

SIGNAL	COLOR
Main Power (+12V)	Red
Power Ground (GND)	Black
ABA Track II CP Out	Orange
Wiegand Data 0 Out / ABA Track II Data Out	Green
Wiegand Data 1 Out / ABA Track II Clock Out	White
Buzzer Control In	Blue
LED Control In	Yellow
RS232 (TX)	Purple
Not Connect	Brown
Not Connect	Gray
* Please cut out tail connector before installation.	

8. Wire Connection to Access Controller



9. Operation

9-1. Once power is applied, you should hear three beeping sounds and LED changes color to red-green-red indicating that the reader is in standby mode after a successful initialization and diagnostics.

9-2. Present proximity card to the reader until you hear the beeping sound and see the LED changes color to Green. The reader will send the RF card data to the controller then the LED will change color to Red again for the next reading.

9-3. LED Control:

To change the LED colors, you may connect the LED Control Input (Yellow wire) to ground and the Green LED will turn on indicating that the reader is in standby mode.
Present proximity card and the LED will change color to Red then Green again for the next reading.

9-4. Beeper Control:

In normal operation, the reader generates one beep when it reads a proximity card, however additional beeps can be generated to improve indication for access status (granted or denied) by forcing the beeper control input (Blue wire) to system ground level. The beeper will remain on as long as the Blue wire is connected to system ground.

10. FCC Registration Information

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the responsible for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions;
1. This device may not cause harmful interface, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to this equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.

11. Warranty Policy and Limitation of Liability

IDTECK warrants this product against defects in material and workmanship for the period specified below from the date of purchase under normal customer use. This Warranty doesn't apply: 1) to any product which has been dismantled without authorization of IDTECK or/and has a damaged or detached QC label on its back side; 2) to any losses, defects, or damages caused by improper testing, operation, installation, maintenance, modification, alteration, or adjustment; 3) to any product with a damaged or faded serial number on it; or 4) to any losses, defects, or damages caused by lightning or other electrical discharge, natural disaster, misuse, accident or neglect.

This Limited Warranty is in lieu of all other warranties, obligations, or liabilities on the part of IDTECK, and IDTECK DISCLAIMS ANY AND ALL WARRANTY, WHETHER EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.IDTECK does not, and cannot, know who is present, what property is located, where this product will be used; it would be extremely difficult to determine the actual damages that may result from a failure of the product to perform as anticipated; and the low price of this product is based upon the nature of the product provided and the limited liability that IDTECK assumes. IDTECK IS NOT RESPONSIBLE FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR LOSS, DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR OTHER LOSS, AND IDTECK'S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT.

To obtain repair or replacement under the terms of this warranty, visit IDTECK's Website (http://www.idteck.com) and place an online RMA request. After an RMA code is issued, return the product along with the authorization RMA code.

>> Warranty Period

	Product Category	Warranty Period
1	RF CARD (Active type)	1 year
2	RF READER / FINGERPRINT READER	3 years
3	STANDALONE CONTROLLER	
4	CONTROL PANEL	
5	FINGERPRINT CONTROLLER	
6	MOLDED RF READER (RF10, RF20, RF30, RF TINY, IP10, IP20, IP30, SR10E, SR10UE, SR10SE, SR10RWE, SR10BE)	Lifetime
7	RF CARD (Passive type) (IDC80, IDC170, IDK50, IMC125, LXK50, IPC80, IPC170, IPK50, ISC80, ISC80S, ISK50, IMC135, IHC80, IP100, IP200)	

RMA REQUEST FORM

IDTECK accepts only on-line RMA requests on our Website (www.idteck.com). Please provide us with basic information in the below form so that we can understand your problems better. Send us back this form with your products after an RMA code is issued on our Website. This form is not compulsory.

RMA Authorization Code :	
1. Company Name	
2. Model Name	
3. Serial No.	
4. Original Invoice No.	
5. Distributor	
6. Purchasing Date	
7. RMA Request Date	

Please check your problems.

□ Card Reading	□ Power	□ Keypad
□ Communication	□ Relay	□ LCD
□ LED & Buzzer	□ Registration	
□ Others :		

IDTECK RMA Center >>

3F, 10/10-1/10-2, Dodang-Dong, Weonmi-Gu, Bucheon-Si, Gyeonggi-Do 157-030, Korea
Telephone: 82.2.2659.0055 (HQ) / 82.32.671.5642 (RMA Center)
Fax: 82.2.2659.0086 (HQ) / 82.32.671.5641 (RMA Center)
Website: www.idteck.com
e-Training Center: www.idtecktraining.com

MEMO

The specifications contained in this manual are subject to change without notice at any time.

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