

RFID Sensor Systems

Sensing, Tracking, and Data Logging

T070 Fully Passive Steel Ultimo Ranger™ Tag

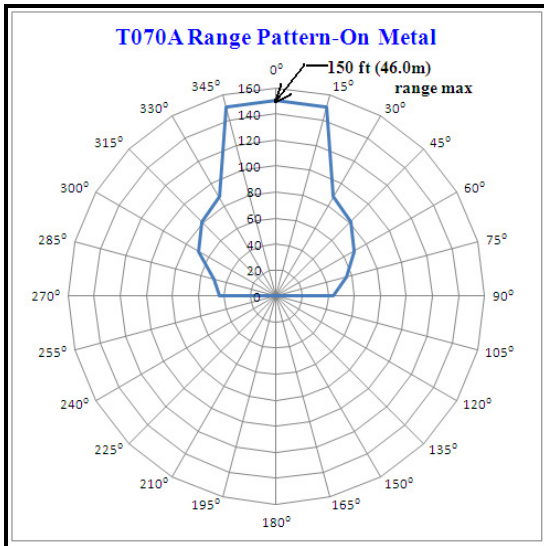
RFID Sensor Systems offers tags, readers, and small systems compliant with EPC Gen2 class 1 international standard. We offer a variety of tags with different mounts and read/write range. Our product line is further enhanced with EPC Gen2 class1 tags providing immediate sensor data and logged sensor data. Most of our tags are available with adhesive backing, Velcro-like backing, magnetic strip backing, and screw-hole mounting options. Our passive tags include industry standard CMOS Gen2 class1 (ISO 18000 – 6c) integrated circuit ICs.

The T070 passive tag is our maximum range tag when operated in open air and also when mounted on metal or liquid surfaces. This world class tag provides the maximum range currently available in passive RFID tags. The T070 tag provides maximum range in the frontal direction and reduced range in the lateral direction.

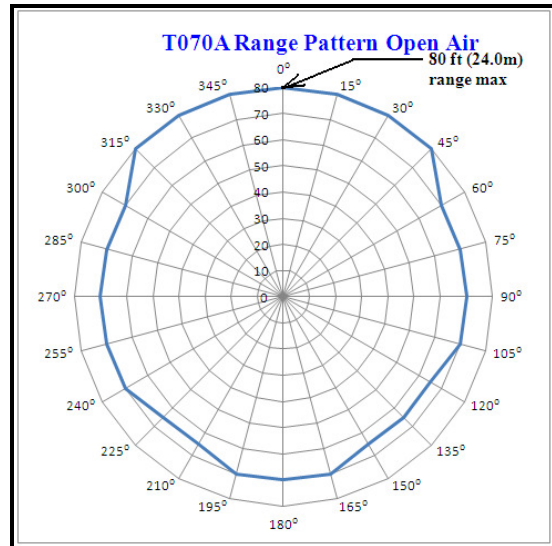


EPC Gen2 class1/ ISO 18000-6c compatible

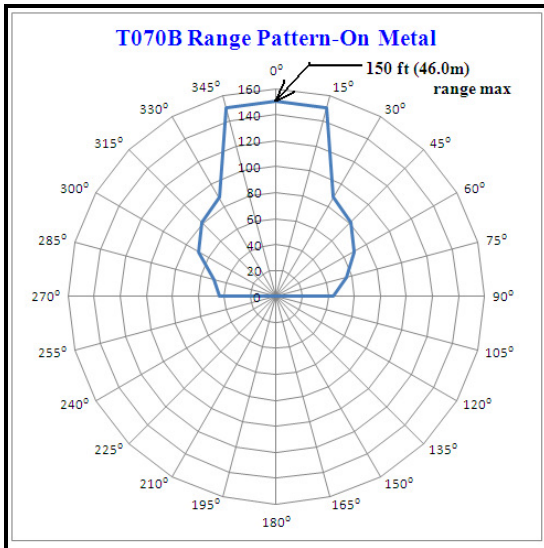
Features	
Tag Dimensions:	6.5 x 0.75 x 1.85in. (16.5 x 1.9 x 4.7 cm) . This tag provides maximum range on metal.
Frequency	902 - 928 NA + SA, 865.7- 867.6 EU & India, 902-907.5 Brazil, 920-926 Australia
Read Range 70A:	Up to 150 feet (46 meters) on metal (with 1 watt RF reader and standard antenna)
Read Range 70B:	Up to 150 feet (46 meters) on metal (with 1 watt RF reader and standard antenna)
Memory	512 user bits + 96 bit EPC code + 64 bit unique TID + 32 bit access password + 32 bit
800 bits tag total:	kill password. Also preprogrammed with unalterable 64-bit serial number.
RFID protocol chip:	Alien Higgs3™
Ambient temperature:	-58 to 185 °F (-50 to +85 °C)
Humidity:	IP-67
Standard color:	White (Other colors optional)
Standard Mountings:	Screw holes
Optional attachment:	Nd-coin magnet for steel attach is optional
Compatible Standards:	EPC Gen2 Class 1 /ISO 18000-6c including 6.25, 12.5, 25.0 μs tari
Return data link:	40, 80, 160, 320, 640 kHz



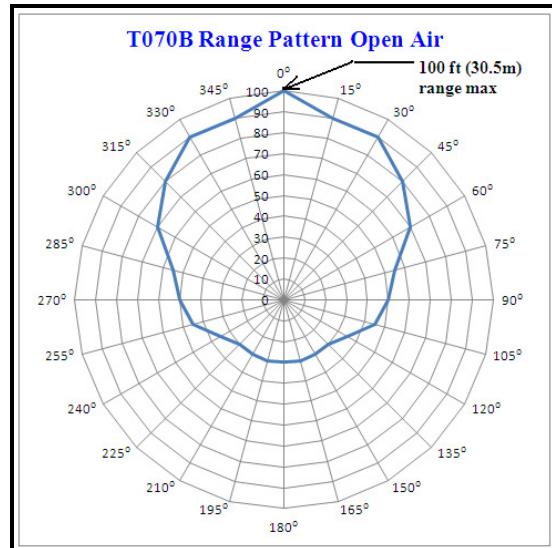
Range radius is calibrated in feet



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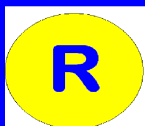


Range radius is calibrated in feet

The option T070A tag has improved range in air compared with option T070B. Both options have the same range when mounted on metal. The polar coordinate plots of tag range are obtained with an ISO 18000-6c reader operating with 30 dBm RF power and a standard patch antenna with 6 dBm gain. Plots are provided for the tag characterized in open air and against a metal plate. Frontal range is indicated as 0° orientation. Lateral range in the plane of substrate or metal is indicated as 90° orientation.

Steel Ultimo Ranger Applications

- Ultra long range RFID general purpose tag
- Cargo container tracking
- Vehicle tracking
- Asset tracking
- Inventory tracking
- Heavy metal machinery tagging



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