

# RFID Sensor Systems

## Sensing, Tracking, and Data Logging

### ST070-2 fully passive RFID temperature sensor Ranger™ tag

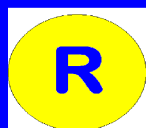
RFID Sensor Systems offers tags, readers, and small systems compliant with EPC Gen2 class 1 international standard. We offer a variety of tags with different mounts and read/write range. Our product line is further enhanced with EPC Gen2 class1 tags providing immediate sensor data and logged sensor data.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

RFID Sensor Systems is a specialist RFID supplier of Gen2 components and small systems. We invite special inquiries for further customized deliveries and partnering.



### EPC Gen2 class1/ ISO 18000-6c compatible standard readers

Features	
Application:	This tag senses ambient environment temperature. In addition all standard EPC C1 Gen2 ISO 18000-6c features are provided to a standard Gen2 reader.
Tag Dimensions:	6.5 x 0.75 x in. (16.5 x x 4.7 cm) without special backing
Frequency (MHz)	902-928 NA + SA, 865.7 – 867.6 EU & India, 902-907.5 Brazil, 920-926 Aus, 864-868 NZ
Read Range:	Up to 20 feet (6.1m) with 1 watt RF power and industry standard reader antennas This tag has maximum frontal range when mounted on metal / reduced range in open air. In open air the tag has the same range in all directions normal to the tag mounting axis.
Memory bits:	8000 user bits + 96 bit EPC code + 32 bit access password + 16 bit kill password
RFID protocol chip:	ISO 18000-6c (C3)
Temperature range	+/- 0.5 °C ( -80 to +80 °C)
Hermeticity:	IP 67
Standard color:	White
Standard Mountings:	Screw holes
Attachment options:	Velcro™-like backing, Coin magnets for steel attach
Compatible Standards:	EPC Gen2/ISO 18000-6c including 6.25, 12.5, 25.0 μs tari
Return data link:	40, 80, 160, 320, 640 KHz



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