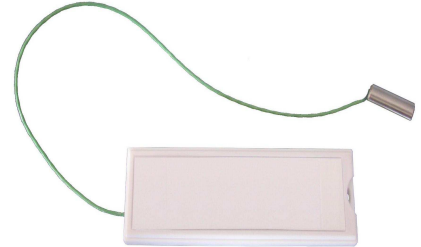


## Temperature Sensor Tag “Active NOW”

The Temperature Sensor Tag is used to identify and perform temperature monitoring of items. The sensor is separated from the main body of the Active Tag. It is built around innovative 0,18µm low-power CMOS integrated circuits. This high scale of integration allows for very compact and low-power performance. The unique battery lifetime is achieved without sacrificing the reading range. A reading range of up to 60m in free space is achieved with the iDTRONIC Microwave 2,45GHz Controller with an anti-collision rate of more than 100 tags per minute.



The Active NOW sensor monitors the temperature in real time with interval of one minute. The tag sends the temperature information every 20 seconds together with its unique personal identification. The sensor can be placed 8” away from the Tag for remote temperature monitoring. The temperature sensing is not affected by the presence of the tag, nor is the electronics of the Tag affected by the sensed temperature.

The unique transmission features make this tag useful also in difficult environment, where non-friendly RF material is present: Metal surroundings of refrigerators, concrete walls, water proximity. The alteration of the transmission remains usually very acceptable given the harsh conditions in which the Active Tag is operating.

The unique battery lifetime (up to 5 years) is achieved without sacrificing the reading and writing range. The controller manages the configuration of the transmission mode.

### Applications:




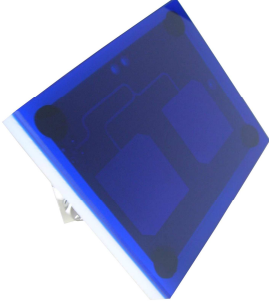
- Supply Chain
- Food industry
- Industrial Solutions
- Medical Healthcare

### Product specification:

<b>Available sizes:</b>	31 x 90 x 10,5mm
<b>Humidity protection:</b>	IP65
<b>Colour:</b>	White, customizable on request
<b>Sensor distance to tag</b>	200 mm with cable
<b>Temperature range for operations</b>	-10°C to + 55°C
<b>Temperature range for storage</b>	-20°C to + 70°C
<b>Temperature sensing range</b>	-40°C to + 125°C
<b>Accuracy:</b>	+/-1°C over the range of 0°C to 70 °C
<b>Operation frequency (RF):</b>	2,4GHz
<b>Radio regulation:</b>	ETS300-440 Rx Class 3; Tx Class 8;
<b>Safety:</b>	EN50364: 2001 (Limitation of human exposure to EM fields)
<b>Reading range:</b>	Up to 60m
<b>Order number:</b>	R-AN-1404

## Product – Data Sheet

Available “Active Now” Readers and Antenna:

Serial Controller	WiFi Controller	GPS/GPRS Controller	Direct Antenna
			
R-AN-1901	R-AN-1902	R-AN-1903	R-AN-1906