



# SP-IDS



## TRAFFIC SOLUTIONS

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INTELLIGENT ICE DETECTION SYSTEM

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Very powerful ice detection system with humidity sensor and an intelligent temperature reader. The system works with solar energy, allowing the placement of this system in any critical point of a road.

This product and with the presented functionalities it's a step forward on the detection of dangerous places due the ice formation.



## technical features

RF Transmitter, integrated humidity and temperature sensors

Transmission Range : 820 feet

Frequency: 433mhz

Data Rate : Up to 9.6 Kbps

Power Supply : 12 V DC / standard or solar

Warning signal activates via Receiver Module (RIA)

Ultra Bright LED

Green : No Ice

Red : Ice Detected

Lower power consumption. Solar power ready.

## temperature sensors

Unit: Farenheit (F°)

RH Accuracy:  $\pm 3.5\%$  RH, 0-100 % RH non-condensing, 25 °C, 5 Vdc supply.

RH Interchangeability:  $\pm 5\%$  RH, 0-60% RH;  $\pm 8\%$  @ 60-100% RH Typical

RH Hysteresis:  $\pm 3\%$  of RH Span Maximum

RH Repeatability:  $\pm 0.5\%$  RH

RH response time, 1/e: 15 s in slowly moving air

RH Stability:  $\pm 0.2\%$  RH Typical at 50% RH in 1 Year

Supply Voltage: 4.0 Vdc to 5.8 Vdc

Supply Current: 500 uA Max.

Operating Humidity Range: 0 to 100% RH, non-condensing

Operating Temperature Range: -40 °F to 185 °F