

GAS & SPECIALTY SENSORS

SNOW/ICE SENSOR T09X SERIES



tekmar[®]
Control Systems
A Watts Water Technologies Company

DESCRIPTION

The Tekmar Control Systems T09X Series Snow/Ice Sensor provides reliable snow and ice detection and control for commercial applications. The T090 sensor is designed to be mounted in the T091 socket and sit flush with the slab. The sensor measures the slab temperature, surface temperature and sensor surface moisture level.

NEW!

FEATURES

- Mounts in Slab
- Long cable 65' (20m) no need for splicing



T090 and T091

SPECIFICATIONS

Supply Voltage	24 VAC @ 12 VA
Output	Resistance
Wiring Terminations	65' (20 m) 18 AWG, 5 conductor
Operating Temperature	-30° to 170°F (-34° to 77°C)
Dimensions	
Sensor	3.4" Dia. x 1.8" D (8.7 x 4.5 cm)
Socket	3.5" Dia. x 3.8" D (7.9 x 9.7 cm)
Approvals	CE
Weight	
Sensor	4.4 lb (2 kg)
Socket	1.5 lb (0.7 Kg)
Warranty	2 years

WIRING

Wiring	Use
Lead color	
Yellow	Heater Sensor Temperature
Black	Return or common
Brown	Slab Temperature
Blue	Moisture
Red	Heater

All wires must be used to properly operate device

CAUTION: NOTE: Overheating the apparatus will damage the device and will void the warranty. No coating or sealants allowed on sensor.

OPERATION

By using one's reading of the outside air sensor (not supplied with this device) one will know the ambient temperature.

The Blue & Black wires are used to measure moisture, When the sensor is dry the ohms reading is ~2,000,000. When the sensor is wet the ohms reading should be between 10K to 300k.

To create moisture for the Blue & Black wires to measure, the heater can be turned on when the outside air temperature is below 32°F by applying 24 VAC @ 12 VA to the Red and Black wires.

The Yellow and Black wires are the Heater Sensor Temperature sensor and the Brown and Black wires are the Slab temperature sensor, both are 10K ohm Type 3 thermistors. One must not exceed 34°F on either of these temperature measurements, this is done by turning off the heater.

ORDERING INFORMATION

MODEL	DESCRIPTION
T090	Snow/Ice sensor
T091	Socket for T090