

DIGITAL TEMPERATURE SWITCH PROBES AND ACCESSORIES

Probes to be used with TS, TS2, TSS2, TSWB, TSW, TS3, TSX3, and 40M



BENEFITS/FEATURES

- 5 or 10 foot cable lengths
- PTC or NTC temperature curves

APPLICATIONS

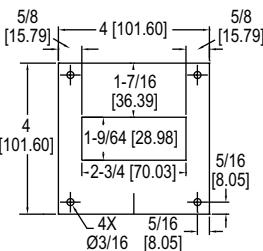
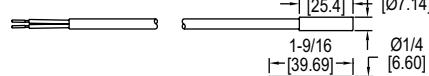
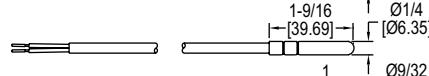
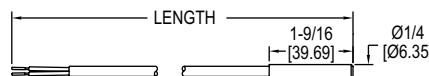
- Refrigerated cabinets
- Walk in coolers
- Food service equipment
- Medical sterilizers or equipment
- Wood or pellet boilers
- Brewing systems

SPECIFICATIONS

Sensor: See model chart.

Operating Temperature: PTC or NTC: -58 to 221°F (-50 to 105°C); J-type: 32 to 1400°F (0 to 760°C); K-type: 32 to 2300°F (0 to 1200°C).

Cable: PTC and NTC models: PVC; J-type and K-type models: FEP.



TS2-K

MODEL CHART - SENSORS

Model	Sensor	Cap Material	Length ft (m)	Model	Sensor	Cap Material	Length ft (m)
TS-1	PTC	Brass	5 (1.5)	TS-7	NTC	None	5 (1.5)
TS-11	PTC	Brass	10 (3)	TS-71	NTC	None	10 (3)
TS-2	PTC	Stainless steel	5 (1.5)	TS-8T	NTC	Stainless steel	5 (1.5)
TS-21	PTC	Stainless steel	10 (3)	TS-81T	NTC	Stainless steel	10 (3)
TS-5	PTC	PVC	5 (1.5)	TS-88T	NTC	Stainless steel	15 (4.5)
TS-51	PTC	PVC	10 (3)	TCS-J	J-type	Stainless steel	4 (1.21)
TS-6	PTC	Polyamide resin coated brass	5 (1.5)	TCS-K	K-type	Stainless steel	4 (1.21)
TS-61	PTC	Polyamide resin coated brass	10 (3)				

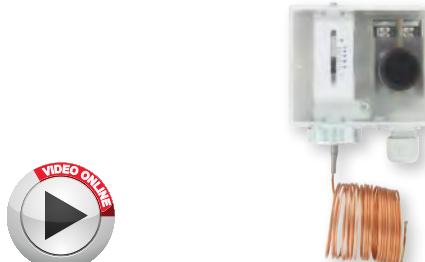
ACCESSORIES

Model	Description
A-TS-AP	1/4 DIN adaptor plate
TS-W	Brass thermowell (for use with TS-1, TS-11, TS-2, TS-21)
TS2-K	Configuration key

SERIES DFS2

LOW LIMIT FREEZE PROTECTION SWITCH

Manual and Automatic Reset



Manual reset option shown

The Series DFS2 Low Limit Freeze Protection Switch protects cooling coils in air handler systems by preventing frost build up. The thermostat and its capillary sensing element provide an antifreeze function by sensing the lowest temperature along any one foot section of capillary. The DPDT manual or automatic reset relays signal the building management system as well as cut off the fan. The Series DFS2 will detect temperature drops below the fixed safety value (set point) which can be set as low as 34°F (1°C) utilizing the visual set point indicator and set point screw.

BENEFITS/FEATURES

- Vapor-filled copper capillary sensing element
- Joint spring protector at capillary-bellow connection
- Set point safety-lock protection and simple adjustment
- Easy installation and wiring
- Automatic and manual reset

APPLICATIONS

- HVAC equipment
- Heat exchangers and cooling coils

Model	Reset Action	Capillary Length
DFS2-DA10	Automatic	10' (302 cm)
DFS2-DA20	Automatic	20' (609 cm)
DFS2-DM10	Manual	10' (302 cm)
DFS2-DM20	Manual	20' (609 cm)

SPECIFICATIONS

Sensing Element: Vapor-filled capillary.

Operating Temperature: 14°F to 54°F (-10°C to 12°C).

Storage Temperature: 14°F to 158°F (-10°C to 70°C).

Capillary Overload Temperature: 392°F (200°C), maximum 60 minutes.

Humidity Limit: 0 to 95% RH, non-condensing.

Enclosure: Galvanized steel base, ABS cover.

Enclosure Rating: NEMA 1 (IP40).

Capillary Material: Copper.

Cable Entry: (1) M20 compression fitting.

Reset Action: Available in automatic or manual reset options.

Low-level Setpoint: Factory Set: 39°F (4°C), and safety lock secured; Adjustment via screwdriver slot.

Wire Connection: Terminal with wire-retaining screws.

Wire Size: Max. 14 AWG.

Electrical Rating: 24-250 VAC, 15 (8) A.

Electrical Connections: Two each NO/NC/Common.

Deadband: 1.8°F (fixed).

Weight: 1.6 lb (0.7 kg).

Agency Approvals: CE.

ACCESSORIES

Model	Description
A-DFS2-C	Capillary mounting clips (6 pieces)

