SERIES TSW | WEATHERPROOF DIGITAL TEMPERATURE SWITCH

FEATURES/BENEFITS

- **Weatherproof housing**
- **Single or dual stage models**
- **Configuration key**
- **Physical and passcode parameter setting protection**
- **TS-8T temperature probe included with models not ending in -NP**

APPLICATIONS

- Chillers
- Walk in cooler
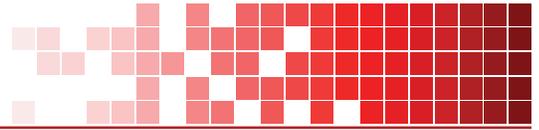- Woodboilers
- Brewing systems

DESCRIPTION

The **Series TSW Weatherproof Digital Temperature Switch** combines the trusted, reliable TS family of temperature controls and an installation friendly weatherproof enclosure. The bright, easy-to-read LED display shows the current output status and the temperature measurement.
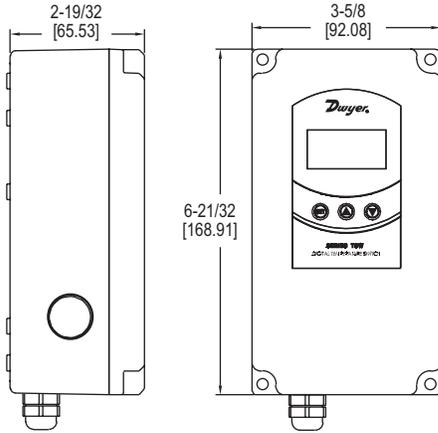
SPECIFICATIONS

Probe Range	PTC: -58 to 302°F (-50 to 150°C); NTC: -58 to 230°F (-50 to 110°C).
Input	PTC (1000Ω @ 25°C); NTC (10K Ω @ 25°C).
Output	R1 SPDT relay resistive load: 20 A @ 240 VAC; R2 SPDT relay resistive load: 8 A @ 240 VAC; Inductive load: 3 A @ 240 VAC.
Horsepower Rating	R1 2HP @ 240 VAC.
Control Type	On/off.
Power Requirements	90 to 255 VAC or 12 to 24 VAC/VDC (±10%) depending on model.
Power Consumption	3.6 VA.
Accuracy	±1% FS.
Display	3 digits plus sign.
Resolution	Single stage: 1°; Dual stage: 0.1° < 100; 1° ≥ 100°.
Memory Backup	Non-volatile memory.
Ambient Temperature	32 to 104°F (0 to 40°C).
Weight	1.2 lb (544 g).
Enclosure Rating	NEMA 4X (IP66).
Agency Approvals	CE, cURus.

DIMENSIONS

2-19/32
[65.53]

3-5/8
[92.08]

6-21/32
[168.91]

Dwyer.

SERIES TSW
DIGITAL TEMPERATURE SWITCH

WIRING DIAGRAM

TS2-K

PROBE INPUTS

Sd1

| 2 | 3 |

| 7 | 8 | 9 | 10 | 11 |

OUT 1

POWER SUPPLY

OUTPUTS

Single Stage

TS2-K

PROBE INPUTS

Sd2 Sd1

| 1 | 2 | 3 |

| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

OUT 2   OUT 1

POWER SUPPLY

OUTPUTS

Dual Stage
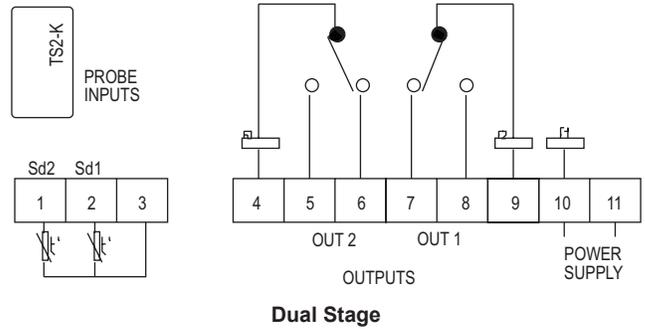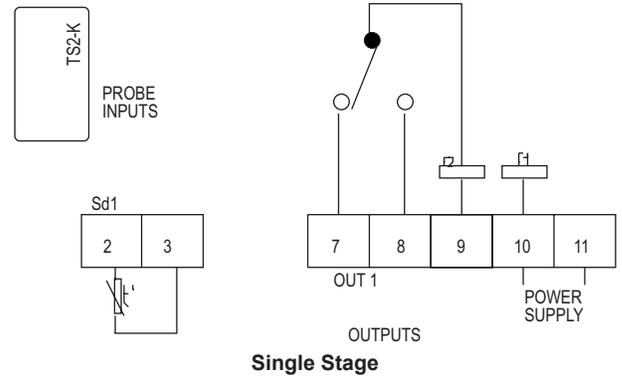
HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

| **TSW** | **-1** | **50** | **-NP** |

SERIES
TSW: Weatherproof digital temperature switch

OPTIONS
-NP: No probe

NUMBER OF STAGES
-1: Single stage
-2: Dual stage

POWER REQUIREMENT
50: 90 to 255 VAC
60: 12 to 24 VAC/VDC
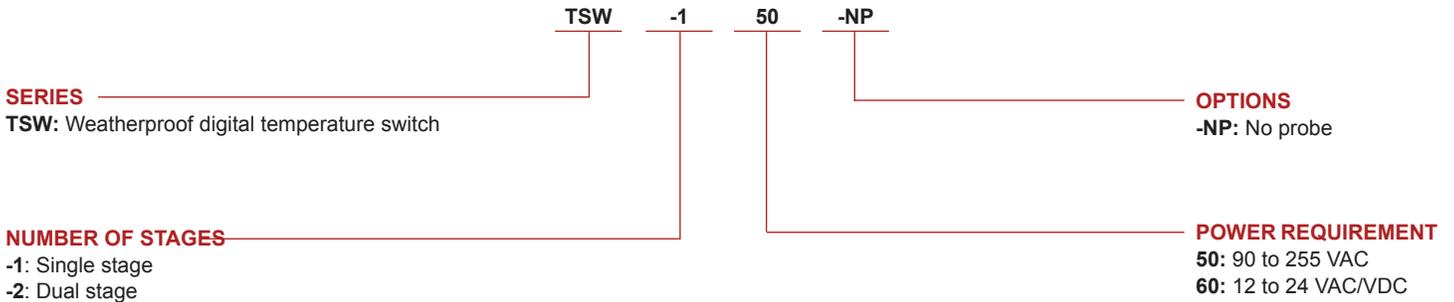
ACCESSORIES

Model	Description
CC1-N	Temperature sensor clip, neutral
CC1-GY	Temperature sensor clip, grey
TS2-K	Configuration key
Series TS-Probes	Temperature sensors