



Rev. 07/12/21

TS1 & TS2 - Transient Suppressor

F23

Accessories for HVAC/R

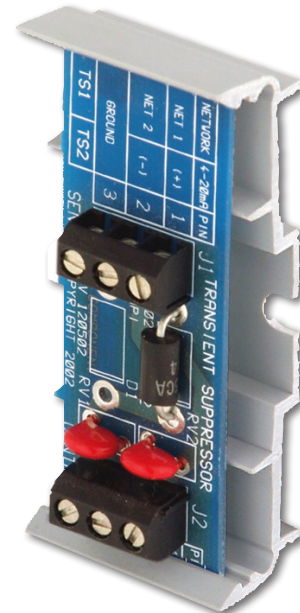
Overview

HVAC control systems can be subjected to electrical transients (temporary excess voltage) from various sources. Damage to control systems can occur if static electricity, lightning or contractors produce transients of sufficient magnitude and duration to overwhelm the protection built into the control system components. The TS1 and TS2 can significantly increase the transient protection and reduce the possibility of damage to the control system. Both modules fit in standard 2.75" snaptrack

The TS1 is specifically designed for network communications between control system components. The TS1 clamps voltages to 10 VAC or ±14 VDC Line to ground and 7.5 VDC line to line.

Note: The added capacitance of the TS1 may be unsuitable for some combinations of communications line length and high speed data. For best operation you may have to reduce line lengths and add data repeaters.

The TS2 is designed to protect 4 to 20 mA current loops. The TS2 clamps the signal return line to 5 volts above ground and 1 volt below ground. The voltage supply line is clamped to ±39 VDC Line to ground.



TS1 or TS2 Transient Suppressor with optional 2.75" snaptrack

Ordering Information

Part Number	Description	List Price
BA/TS1	TS1 Transient Suppressor (voltage)	\$7.50
BA/TS2	TS2 Transient Suppressor (current)	\$7.50
BA/TS1-TRK	TS1 Transient Suppressor (voltage) with 1.25" piece of 2.75" Snaptrack..	\$12.50
BA/TS2-TRK	TS2 Transient Suppressor (current) with 1.25" piece of 2.75" Snaptrack ..	\$12.50

Submittal datasheets without List Prices are available on our website at www.bapihvac.com

Specifications

TS1 Clamping Voltage:

10 VAC or ±14 VDC Line to Ground,
±7.5 VDC Line to Line

TS2 Clamping Voltage:

5 VDC Above Ground, Signal Return Line
1 VDC Below Ground, Signal Return Line
±39 VDC Line to Ground, Power Supply Line

