







Thermal Safety Switches

Our thermal safety switches detect flue gas spillage due to a blocked flue. With the safety switch wired in series with the burner circuit, the switch will de-energize the system's burner or burner control once it senses the spillage of hot flue gases. Available for gas-fired and oil-fired applications.

Venting

Model		Typical Applications
 <p>FTS</p>	<p>FTS-4 & FTS-6</p>	<p>Designed for use on large gas furnaces and boilers. Can be mounted on Draft Hood or double-acting Barometric Draft Control (both brackets included). Manual reset.</p>
 <p>SSK</p>	<p>SSK-1 & SSK-3</p>	<p>Kit form of GSK-3 or GSK-4 generally used on millivolt water heaters. Can also be used with 24 VAC gas furnaces or boilers. Kit includes (2) GSK style Thermal Safety Switches, (1) 12-gauge Jumper Wire and (1) 6 ft. length 12-gauge lead wire. SSK-3 switches not supplied with switch enclosures. TCA-1 Thermocouple Adapter required for 30 millivolt applications.</p>
 <p>WMO</p>	<p>WMO-1</p>	<p>Designed for use with power venting and chimney vented systems for oil-fired applications. Manual reset.</p>
 <p>GSK</p>	<p>GSK-160A & GSK-250M</p>	<p>The GSK-160A is designed for use on draft induced furnaces. Activates at 160°F. Silver Contacts. Auto reset. The GSK-250M is designed for use on steam boilers. Activates at 250°F. Silver Contacts. Manual reset.</p>
	<p>GSK-3 & GSK-4</p>	<p>Designed for use on residential and light commercial millivolt or 24 VAC gas furnaces, boilers and water heaters. Generally used with sidewall venting applications.</p>
 <p>LS</p>	<p>LS-140A, LS-550A</p>	<p>Installation of a high temperature vent limit switch is recommended for LP and Natural gas fired power vented and natural draft water heaters. This device is installed to limit the vent temperature in either plastic pipe (140° F temperature limit) or B vent installations (550° F temperature limit) caused by scaled up tanks and/or inadequate venting.</p>
 <p>TCA</p>	<p>TCA</p>	<p>Note: For 30 millivolt applications (residential water heaters), a thermocouple adapter is required to connect the GSK. The TCA is used to splice into the thermocouple circuit. The TCA-1 has standard threads.</p>

Thermal Safety Switches

How Thermal Safety Switches Work

The Thermal Safety Switch detects the increased heat generated by the flue gas spillage and deactivates the furnace or boiler. It will not allow the burner to restart until the switch has been manually reset.

When to use a Thermal Safety Switch

On Barometric Draft Controls and draft hoods to detect flue gas spillage and deactivate oil and gas burners.

Thermal Safety Switches								
Model	Field Part No.	Contact Material	Load-Rating		Normally Closed Switch		Switch Type	Application
			AMP	Volts	Opens	Closes		
FTS-4	01170004	Silver	12 6	120 AC 240 AC	140°F	Manual Reset	SPST	Draft Control or Draft Hood mounting Manual reset. Quicker response time than FTS-6.
FTS-6	01170006	Silver	12 6	120 AC 240 AC	180°F	Manual Reset	SPST	Draft Control or Draft Hood mounting Manual reset. For use on 24/120/240 Volt conversion burner equipment over 400,000 BTU/hr.
GSK-160A	46086403	Silver	- 24 VA	120AC	160°F	Automatic Reset	SPST	Draft induced furnaces. Activates at 160°. Auto reset.
GSK-250M	46086404	Silver	- 24 VA	Millivolt 24 AC	250°F	Manual Reset	SPST	Steam Boilers. Activates at 250°. Manual Reset.
GSK-3	46086400	Gold	- 24 VA	Millivolt 24 AC	180°F	Manual Reset	SPST	Standard Gold Contact Manual Reset Switch. For gas-fired millivolt or 24 VAC application.
GSK-4	46086402	Gold	- 24 VA	Millivolt 24 AC	200°F	Manual Reset	SPST	Manual Reset Switch, same as GSK-3. Where slower response time is a requirement.
SSK-1	46111501	Gold	- 24 VA	Millivolt 24 AC	180°F	Manual Reset	SPST	Kit includes (2) GSK-3 switches (1) 6 ft. length of 12 GA wire and Switch Jumper Wire.
SSK-3	46111503	Gold	- 24 VA	Millivolt 24 AC	200°F	Manual Reset	SPST	Kit same as SSK-2 Kit, except switches not enclosed in electrical box.
TCA-1	46082700	-	-	-	-	-	-	Required adapter for operation of Gold Contact Thermal Safety Switches with 30 millivolt systems (residential water heaters).
LS-140A	46564100	Silver	15	120 AC	140°F	Automatic Reset	SPDT	For plastic vent applications. Recommended for LP and Natural gas fired power vented and natural draft water heaters.
LS-550A	46564200	Silver	15	120 AC	550°F	Automatic Reset	SPDT	For B-Vent applications. Recommended for LP and Natural gas fired power vented and natural draft water heaters.
WMO-1	46086900	Silver	10	120 AC	200°F	Manual Reset	SPST	Manual reset. Designed for use with power venting and chimney vented systems for oil-fired applications.

NOTE: SPST = Single Pole Single Throw, SPDT = Single Pole Double Throw

Replacement Parts

VENTING

MODEL RJR-5, RJR-6

MODEL	DESCRIPTION	PART NO.
RJR-5	24 Volt SPDT Relay	46080200
RJR-6	120 Volt SPDT Relay	46111100

24 or 120 Volt
SPDT Relay



MODEL CK-20FV MILLIVOLT GAS-FIRED WATER HEATER CONTROL KIT

MODEL	DESCRIPTION	PART NO.
CK-20FV	Fan Control Gas Pressure Switch	46506800
	GSK-3 Spillage Switch Kit	46086400
	TCA-1 Thermocouple Adapter (FV model)	46082700

Fan Control
Gas Pressure
Switch



GSK-3 Spillage
Switch Kit



MODEL CK-21 MILLIVOLT INSTANTANEOUS GAS-FIRED WATER HEATER CONTROL KIT

MODEL	DESCRIPTION	PART NO.
CK-21	Fan Control Gas Pressure Switch	46506800
	SSK-3 Spillage Switch Kit	46111503

TCA-1
Thermocouple
Adapter
(FV model)



SSK-3 Spillage
Switch Kit



MODEL CAC-24 AND CAC-120 COMBUSTION AIR CONTROLLER

MODEL	DESCRIPTION	PART NO.
CAC-24 CAC-120	Pressure Switch	46273100
CAC-24	RJR-5 24 Volt Relay Kit (CAC-24)	46080200
CAC-120	RJR-6 120 Volt Relay Kit (CAC-120)	46111100

Pressure Switch



Timer Fixed
Post Purge



MODEL CK-41F and CK-41P GAS-FIRED CONTROL KIT WITH FIXED POST PURGE

MODEL	DESCRIPTION	PART NO.
CK-41F CK-41P	Pressure Switch	46273100
	Timer Fixed Post Purge	46282800
	GSK-3 Spillage Switch	46086400
CK-41P	Wiring Harness for CK-41P only	46457200

Wiring Harness
for CK-41P

