

Thermocouples and Thermopiles

Q313 Replacement Thermopile Generators



Q313 Thermopile Generator contains multiple thermocouples connected in series to increase the millivoltage output. The power generated is sufficient to operate an automatic millivolt gas control system, independent of any outside power source.

- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Spade or quick-connect terminals available for millivolt gas control connections.
- Male nut connector for Pilotstat® safety control power units.
- Available in a variety of lead lengths.

Open Circuit Output: 600 mV to 750 mV

Voltage: 750 mV

Temperature Ratings Cold Junction: 780 F (416 C)

Temperature Ratings Hot Junction: 1400 F (760 C)

Connection Type: Spade Terminals

Residential
Combustion Controls

Product Number	Lead Length		Resistance	Includes	Used With
	(inch)	(mm)			
Q313A1022	35 in.	889 mm	2.89 ohms	1/2 in. thermopile attaching nut	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
Q313A1055	47 in.	1194 mm	2.90 ohms	1/2 in. thermopile attaching nut.	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
* Q313A1139	35 in.	889 mm	2.89 ohms	push-in clip	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
* Q313A1170	35 in.	889 mm	2.89 ohms	PG9 adapter (part no. 393948) and 1/2 in. thermopile attaching nut	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
* Q313A1188	35 in.	889 mm	2.89 ohms	push-in clip, 1/2 in. thermopile attaching nut.	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
Q313A1402	35 in.	889 mm	2.89 ohms	PG9 adapter (part no. 393948) and 1/2 in. thermopile attaching nut	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners
Q313B1005	35 in.	889 mm	2.89 ohms	Junction box for series hookup with high limit switch and 1/2 in. thermopile attaching nut	Q314, Q324, Q327, Q377, Q379, Q382 Pilot Burners

* TRADELINE models • SUPER TRADELINE models

Q340 Universal 30 mV Thermocouple



Thermocouples generate a thermoelectric current that senses a pilot flame on gas-fired heating systems. The pilot flame heats the tip of the thermocouple, producing a temperature differential between it and the base. This temperature difference generates a small amount of DC power, measured in millivolts.

- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Spade or quick-connect terminals available for millivolt gas control connections.
- Male nut connector for Pilotstat® safety control power units.
- Available in a variety of lead lengths.

Open Circuit Output: 26 mV to 32 mV

Voltage: 30 mV

Temperature Ratings Cold Junction: 780 F (416 C)

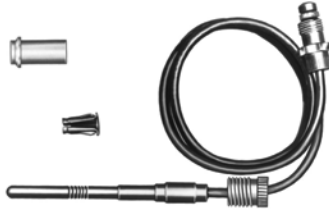
Temperature Ratings Hot Junction: 1400 F (760 C)

Product Number	Lead Length		Connection Type	Resistance	Includes	Used With
	(inch)	(mm)				
* Q340A1066	18 in.	457 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	—
• Q340A1074	24 in.	610 mm	11/32 32 Male Connector Nut; Push-in Clip	0.02 ohms	Adapter and Push In Clip	—
* Q340A1082	30 in.	762 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	—
• Q340A1090	36 in.	914 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	—
* Q340A1108	48 in.	1219 mm	11/32 32 Male Connector Nut	0.03 ohms	Adapter and Push In Clip	—
Q340A1504	18 in.	457 mm	Push-in Clip	0.02 ohms	Adapter and Push In Clip	Q303, Q308, Q314, Q324, Q333
Q340A1512	24 in.	610 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	Q314
Q340A1520	30 in.	762 mm	Push-in Clip	0.02 ohms	Adapter and Push In Clip	Q303, Q308, Q314, Q324, Q335
Q340A1538	36 in.	914 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip	Q314
Q340A1546	48 in.	1219 mm	Push-in Clip	0.03 ohms	Adapter and Push In Clip	Q303, Q308, Q314, Q324, Q337

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Thermocouples and Thermopiles

Q390 Thermocouple



Open Circuit Output: 26 mV to 32 mV
Voltage: 30 mV

Thermocouples generate a thermoelectric current that senses a pilot flame on gas-fired heating systems. The pilot flame heats the tip of the thermocouple, producing a temperature differential between it and the base. This temperature difference generates a small amount of DC power, measured in millivolts.


- Push-in clip, split nut, and adapter assembly for easy pilot burner installation.
- Spade or quick-connect terminals available for millivolt gas control connections.
- Male nut connector for Pilotstat® safety control power units.
- Available in a variety of lead lengths.

Temperature Ratings Cold Junction: 780 F (416 C)
Temperature Ratings Hot Junction: 1400 F (760 C)

Product Number	Lead Length		Connection Type	Resistance	Includes
	(inch)	(mm)			
* Q390A1046	24 in.	610 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
* Q390A1053	30 in.	762 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
* Q390A1061	36 in.	914 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
* Q390A1095	18 in.	457 mm	11/32 32 Male Connector Nut	0.02 ohms	Adapter and Push In Clip
* Q390A1103	48 in.	1219 mm	11/32 32 Male Connector Nut	0.03 ohms	Adapter and Push In Clip

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Thermocouple and Thermopile Accessories

Product Number	Description	
393948	PG9 Adapter Assembly	
394530	Thermocouple Tester Assembly	