

Hot Surface Ignition Oven Control



Glo Controls' Oven Controls provide enhanced functionality with the highest level of safety and performance.

The Hot Surface Ignition Oven Control (HSOC02-2C) is a compact electronic device used in gas appliances. It provides two gas valve outputs and two independent hot surface ignition outputs, controlled by rectification flame sense circuits using common ignition and sense electrodes.

In contrast to broadly used flame sense technology, it is tolerant of line and neutral connection swap.

By using flame sense technology our Hot Surface Oven Control is only activated during the ignition sequence thereby extending the life of the element and reducing power usage.

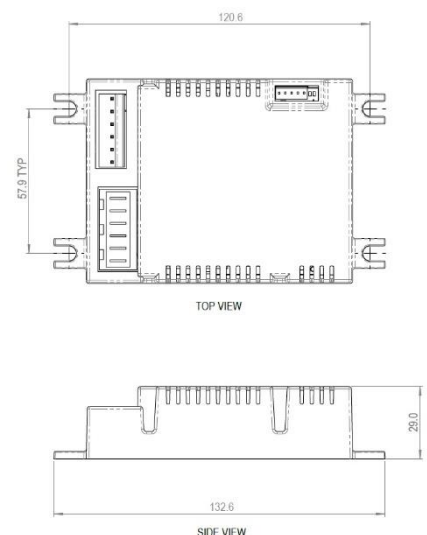
The HSOC02-2C is a two channel oven control, providing all the required functions for safe control of two 120 (or 230) Vac gas valves, ignition, and flame sensing.

In addition, it provides safety monitoring and will not light the gas without proper safety protocols being met.

Can be used in other gas safety applications to safely ignite your gas appliance.

Features

- 120 or 230V operation, 50 or 60Hz operation (different models)
- Standby power < 2W
- Two independent channels
- Detection of system faults Tolerant of line and neutral connection swap
- Programmable safety and purge times, ignition and re-ignition attempts
- Status display LED (can be remotely mounted)
- Serial port for production line testing or programming
- Compliant to CE and CSA 60730-2-5 safety standards
- The HSE oven controller may be programmed with alternative parameters or additional features according customer requirements
- Performs all necessary safety checks before energising gas valves.
- Status LED indicates fault if any abnormal condition is detected.
- This Controller is also suitable for use with isolation transformers



Specifications

Parameter	Min	Typ	Max	Units
Line Voltage (110V version)	95	110	132	V (RMS)
Line Voltage (230V version)	190	230	265	V (RMS)
Supply Current (idle)		7	10	mA
Supply Current (operating, excluding HSE)		20	50	mA
Frequency (60Hz Version)	55	60	65	Hz
Frequency (50Hz Version)	45	50	55	Hz
HSE output continuous current			4	A (RMS)
External Solenoid rated voltage		120		Vac
External Solenoid power			15	W
Flame Sense Current	0.2	0.5		uA
Resistance of HSE (in cold state)	10			Ohm
Operating Temperature (continuous)	0		105	°C
Relative Humidity (at 40C – non condensing)			95	%
Power up check time			8	Sec
Safety check time	5		18	Sec
Heating run time			100	Min

Model 1

Ignition Attempts			5	
Re-Ignition Attempts			1	
Purge Period	20			Sec
Ignition time with valve on		4	4.4	Sec
Flame verification time		3	3.3	Sec

Model 2

Ignition Attempts			6	
Re-Ignition Attempts			3	
Purge Period	30			Sec
Ignition time with valve on		7	7.7	Sec
Flame verification time		5	5.5	Sec

Model 3

Ignition Attempts			5	
Re-Ignition Attempts			3	
Purge Period	5			Sec
Ignition time with valve on		4	4.4	Sec
Flame verification time		3	3.3	Sec

Model 4

Ignition Attempts			6	
Re-Ignition Attempts			4	
Purge Period	5			Sec
Ignition time with valve on		7	7.7	Sec
Flame verification time		5	5.5	Sec

Certificate of Compliance

CSA Certification: 267542



For more information or a detailed product specification, please call or visit us at:

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