

## HOMEGUARD® HG Surge Arrester



### INTRODUCTION

The HG Surge Protective Device (SPD) is mounted at the electrical meter for residential "Whole House" protection.

### INSTALLATION

#### **DANGER**

##### **HAZARD OF ELECTRIC SHOCK, BURN OR EXPLOSION.**

- This equipment must be installed and serviced only by qualified electrical personnel in accordance with National and Local Electrical Codes.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Do not apply petroleum-based products to non-metallic parts.

**Failure to follow these instructions will result in death or serious injury.**

#### **WARNING**

Not for use on ungrounded systems.

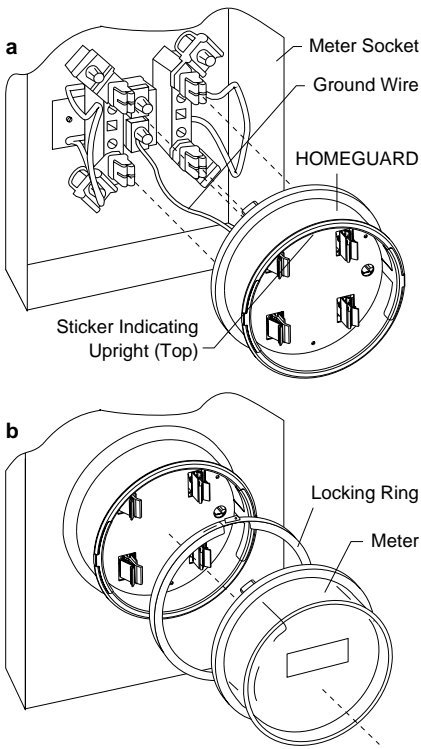
**Failure to follow these instructions can result in death or serious injury.**

#### **CAUTION**

##### **HAZARD OF EQUIPMENT DAMAGE.**

Megger® or hi-potential tests will damage this surge protective device. Turn off all power supplying the equipment and isolate the surge protective device before testing.

**Failure to follow these precautions can result in equipment damage.**



NOTE: Before reinstalling the meter, replace the meter socket housing cover.

Figure 1: Installation

1. Where possible, turn off all power supplied from the meter to be protected. This reduces arcing when the meter is removed.
2. Have an authorized utility person remove the utility seal and locking ring or cover from the meter.
3. Using suitable insulated gloves, protective clothing and eye protection, carefully remove the meter from its base.  
*NOTE: Before inserting the HOMEGUARD, connect the green ground wire provided to the inside of the meter socket housing using appropriate ground bonding methods as described in NEC Article 250).*
4. Make sure the unit is upright (see Figure 1a). Plug the HOMEGUARD unit securely into the meter base until the grounding pins make contact.
5. Replace the meter socket cover to secure the HOMEGUARD in place.
6. Plug the meter securely into the HOMEGUARD. (see Figure 1b)
7. Install the new locking ring to secure the meter to the HOMEGUARD (not included).
8. Have authorized electric utility personnel reseal both the HOMEGUARD (if required) and the meter locking rings.

Diagnostic Operation

- LED ON = OK. (see Figure 2)
- LED OFF and/or Audible Alarm ON = Fault. (see Figure 2) Check line voltage and connections. If OK, replace unit.

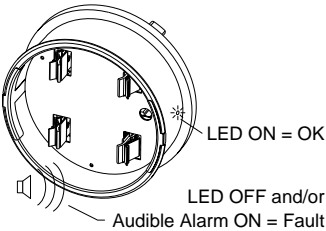


Figure 2: Diagnostic Operation

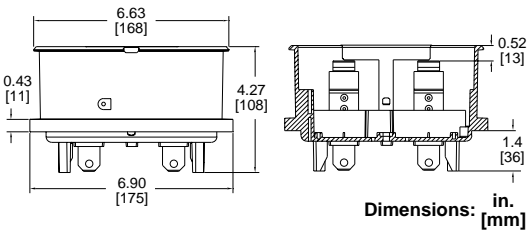



Figure 3: Dimensions

General Specifications	
Max Surge Current	100 kA/Phase
MCOV	180 Vac
SCCR	10,000 RMS Symmetrical Amperes, 240 Volts Maximum
Housing Rating	Type 3R
Product Weight	1.7 lbs
Connection Method	Meter Base 4(5) Jaws
Thermal Fusing	Yes
Operating Temperature	-40° to +160°F (-40° to +70°C)
Operating Frequency	50/60 Hz
Diagnostics	Green Status LED and/or Audible Alarm
Product Standards	 ANSI/IEEE C62.11 and to CSA C22.2 No. 233.1-87

MCOV = Maximum Continuous Operating Voltage  
SCCR = Short Circuit Current Rating

Model #	Diagnostics	Service Voltage	Connecting Jaws
HG4S250B	Buzzer	120/240 2-Wire + Ground	4
HG4S250L	Green LED	120/240 2-Wire + Ground	4
HG4S250D	Buzzer & Green LED	120/240 2-Wire + Ground	4
HG5S250B	Buzzer	120/240 2-Wire + Ground	5
HG5S250L	Green LED	120/240 2-Wire + Ground	5
HG5S250D	Buzzer & Green LED	120/240 2-Wire + Ground	5