

Model

GO 811

Oil/gas safety control

The GO-811 safety control is suitable for fully control dual fuel (gas/oil) fan assisted burners.

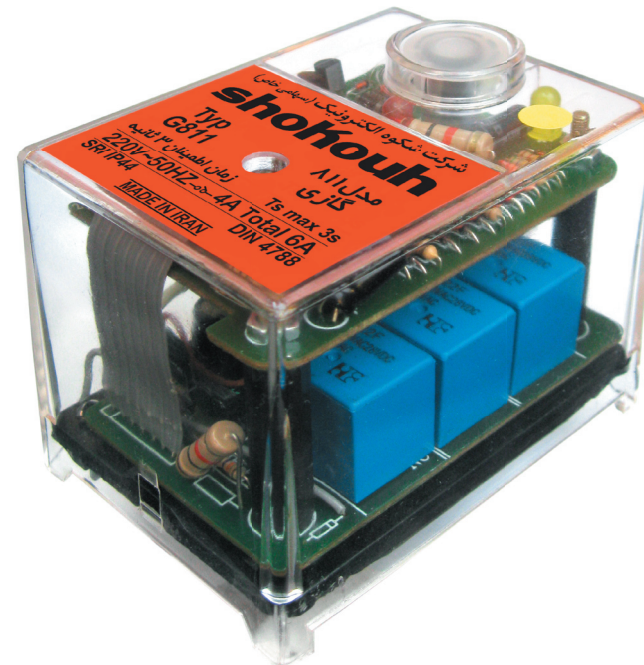
Flame detectors: Ionization probe- UVZ₁, (UVZ₂-Brahma-Red & QRA2 Landis)
* (Note1)

■ Description:

GO811 is covered in a non inflammable polycarbonate transparent. GO811 has circuit boards with the electronic components. The reset button, an indicator lamp and the central screw fastening situated on the upper part of the control box. A central fixing screw locks control box to the wiring base.

■ Technical data

- | | |
|---|--|
| ■ Operating voltage | 220 v ± 15% 50 HZ |
| ■ Fuse rating | 10A fast, 6 A slow |
| ■ Power consumption | 4 VA |
| ■ Max current rating output terminal | 6A total 10A |
| ■ Ionisation current | 5 μ A |
| ■ Flame detector | Ionisation probe, UVZ ₁ , UVZ ₂ (BRAHMA) QRA ₂ (LANDIS) |
| ■ Mounting position | any |
| ■ Insulation standard | IP44 |
| ■ Permissible work temp for controller and flame detector | -20°C...+ 60°C |
| ■ Weight | 180 g |



■ Commissioning and service/ maintenance

1. Important remarks

- Before commissioning, the wiring has to be accurately checked. Faulty wiring can damage the unit and endanger the safety of the installation.
- The main fuse has to be selected so that the limit values indicated under "Technical specifications" are under no circumstances exceeded. Non-compliance with this regulation can have very serious consequences for the control unit and for the installation in the case of a short-circuit.
- For safety reasons, at least one control shut down per 24 hours must be ensured.
- The control unit must be plugged – in or – out only when the main supply has been disconnected.
- Automatic burner safety controls are safety devices and must not be opened.

2. Functional check

During commissioning and after an overhaul of the burner, the following checks have to be carried out:

- Starting test with closed manual valve and bridged gas monitor contact:
 - The device must go into a fault condition after the safety period has elapsed.
- Close the manual valve in operating position with the gas monitor contact bridged.
 - The device must go into a fault condition after a flame failure.
- Air pressure monitor contact interrupted:
 - Device goes into a fault condition
- Bridge air pressure monitor contact before starting:
 - Device must not start.

3. Fault finding

■ A (gas)

Burner does not start:

- Fault in electrical supply, thermostat OFF
- Thermostat or gas-proving switch OFF
- Air proving switch not in proper air position

Switches to lockout after attempted start without establishing flame:

- No ignition or no fuel reaching burner
- Flame signal during the pre-purge phase

Burner starts, flame is established but control box switches to lockout after elapse of safety interval:

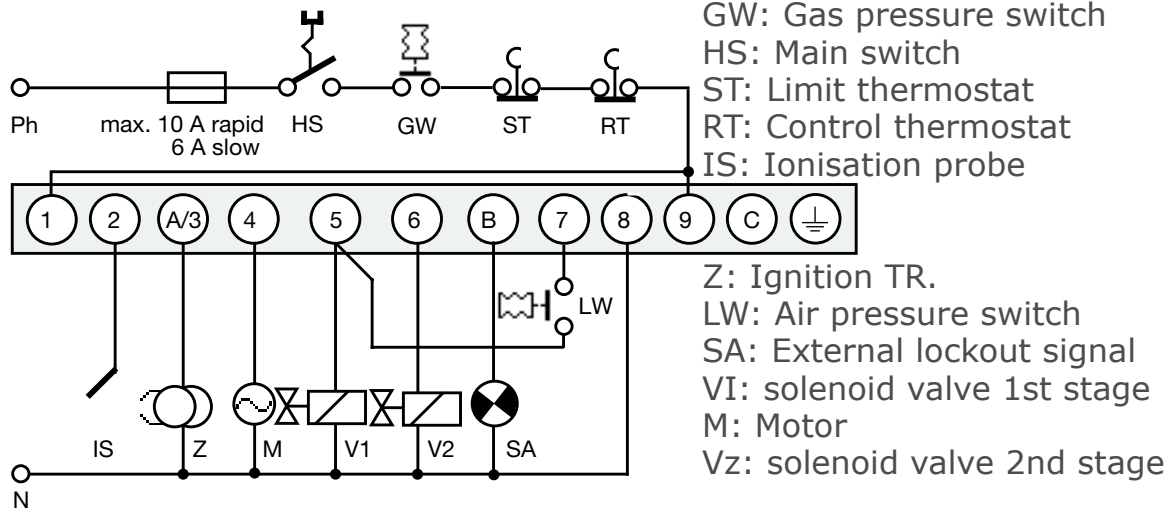
- No flame signal or signal too weak
- Flame detector is dirty or defective

■ B (Oil)

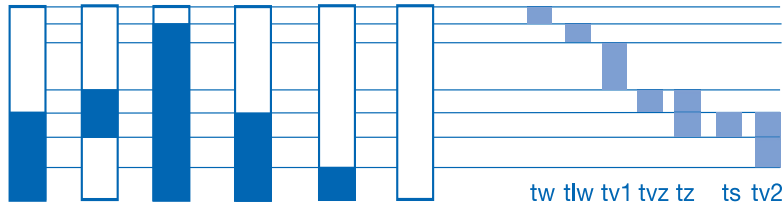
Burner not working:

- Faulty electrical wiring, thermostat circuit open. Burner starts, flame not established=Lockout.
 - Stray light on flame detector
- No ignition or no fuel
- Burner starts, flame established and after safety time flame is not stable and goes off.
- Flame detector dirty or faulty
 - Insufficient light on detector

Circuit diagram of GO-811



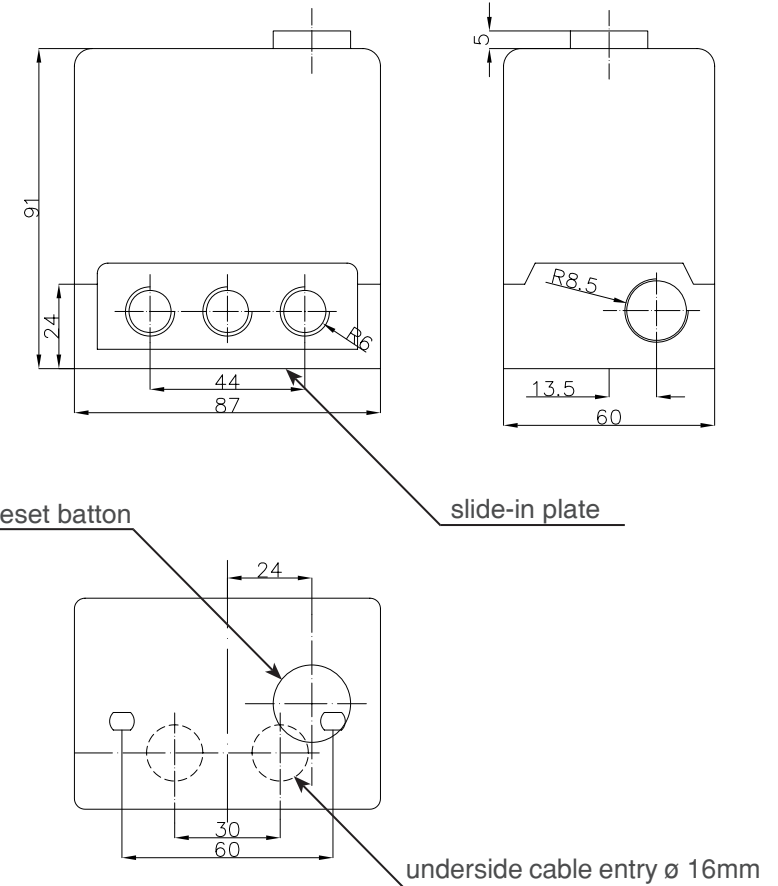
Timing diagram



Start sequence, flame established

- tw: waiting time at start up
- tlw: max reaction time for air proving switch
- tv1: pre purge time
- tvz: pre ignition time
- tz: total ignition time
- ts: safety time
- tv2: time delay term

GO-811 with base



*(Note 1): This model can be replaced with the satronic (MMI 811) model. With an adaptability commissions for installation.