



## SPARK IGNITION MODULES

### 1 to 6 Point Direct Spark Igniters

#### For gas appliances

**The Tytronics' family of ignition modules is suitable for both the spare parts industry and new applications, using industry standard connection systems and fixing points.**

Ignition modules providing one to six direct spark outlets are available in 120 VAC, 230 VAC, 24 VDC, and 12 VDC versions, with other voltage options available on request. Our spark modules can be used with natural, manufactured and LP gas mixtures.

#### Multiple Housing Styles

Single, two, four and six point housings provide a range of product options for customers. Housings have been designed with multiple mounting points so that the units can be fixed in various orientations using either: direct clip, clip and screw assist or multiple screw fixing

#### Choice of Output Terminals

Tytronics Igniters can be supplied with either industry standard 2.8mm (0.11") x 0.8mm (0.032") or 4.8mm (0.187") x 0.8mm (0.032") spark outlet tab terminals. Input terminals are standard tab terminals 6.3mm (0.25") x 0.8mm (0.032")

#### Quality Guaranteed

Tytronics Igniters are designed for long life in harsh environments. We ensure quality through good design, testing and manufacture to the highest international standards. Our products are used by many of the top consumer appliance companies around the world.

#### Operating Principles

Each burner has a gas cock fitted with a momentary switch that applies power to the Igniter when pushed in or turned to the ignition position, alternatively a separate ignition button maybe fitted to the appliance. When the Ignition switch is operated, sparks are generated at all Igniter outlets. Once ignition has occurred, the user releases the switch/ button or turns the gas cock to the cook position, power is removed from the Igniter and sparking stops. The same process is repeated when any of the remaining burners are switched on.

#### Certifications

These units have been constructed to comply with the current American Gas Association ANSI Z21.20 Standard, Canadian Standard CAN/CSA-C22.2 No 199-M89 and the following European Standards:

- EN60730-2-1: 1997 specification for automatic controls for household and similar use
- EN50165: 1995 Clause 8.101 Electrical Equipment of non-electric appliances for household and similar purpose.



*A safe and cost effective solution for gas ignition*



**SPARK IGNITION MODULES**  
**1 to 6 point Direct Spark Igniters**  
**For gas appliances**

**Specification**

**Number of outlets**

1 to 6

**Supply voltages**

120 VAC (96 – 132 VAC) at 60 Hz  
 230 VAC (187 – 264 VAC) at 50 Hz  
 24 VDC (20 – 26 VDC)  
 12 VDC (8 – 14 VDC)  
 Other voltages available

**Spark rate**

1 – 8 Hz (5 Hz typical)  
 EMI Compliant <1 Hz  
 Other spark rates available

**Spark voltage**

Minimum 10 kV at 35pf load  
 13 kV typical

**Spark energy**

5 – 7 mJ

**Spark gap**

Minimum 2.5mm  
 Maximum Typically 4.0mm at 35pf  
 Maximum spark gap may be increased if load capacitance is reduced below maximum specification

**Connectors**

Input 6.3mm (0.25") x 0.8mm (0.032")  
 Quick Connect tabs  
 Output 2.8mm (0.11") x 0.8mm (0.032") or  
 4.8mm (0.187") x 0.8mm (0.032")  
 Quick Connect tabs

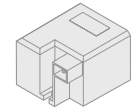
**Environmental specification**

Operating temperature (continuous)  
 -10° C to 105° C (14° F to 221° F)  
 Relative Humidity (at 40° C non condensing)  
 95%

**Size**

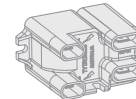
**A style housing**

110 x 90.6 x 32mm



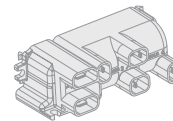
**K style**

61.5(w) x 43(d) x 32.6(h) mm



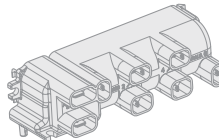
**G style**

88.4(w) x 42.1(d) x 30.6(h) mm



**P style**

114.5(h) x 42.1(d) x 30.6(h) mm

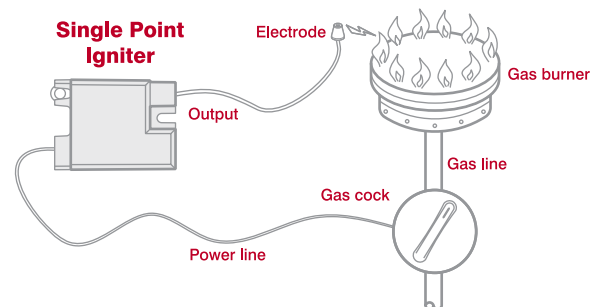
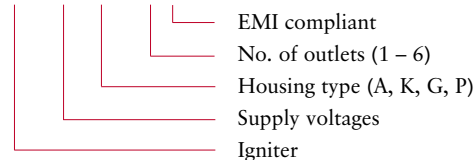


**Fasteners**

Most models can be clipped in place.  
 If additional fastenings are required use 4mm (0.157") diameter screws (M4/No.8)

**Model number designation**

**IG XXX X – X E**



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*Note: Specifications subject to change without notice.  
 Tytronics provides customer assistance in varied technical areas. Since Tytronics does not possess full access to data concerning all the uses and applications of the customer's product, responsibility is assumed by Tytronics neither for customer product design nor for any infringement of patents or rights of others from Tytronics assistance.*

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