



PRODUCT CATALOGUE

PACTROL SOLUTIONS

New and Replacement electronics for the Gas Industry

PACTROL
CONTROLS

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ABOUT PACTROL SOLUTIONS

For 40 years Pactrol Controls Limited has designed and manufactured highly innovative electronic control systems for a wide range of gas-fired appliances in the domestic, commercial and industrial markets and has a proven track record for quality and reliability. In May 2009 Pactrol announced the opening of their on line store - Pactrol Solutions.com.

Pactrol Solutions.com offers individual Heating Engineers and End users the opportunity to purchase new and replacement parts direct from the company who designs and manufactures them.

Pactrol Controls Ltd a World Leader in safety and control electronics.

Pactrol's gas controls are available for control of manual, semi-automatic and fully automatic gas appliances.

Typical applications include:

- domestic and industrial boilers
- space heating appliances
- kilns
- furnaces
- radiant heaters
- catering appliances

As well as a large range of gas controls we also have a wide range of accessories such as connectors, emc filters and igniters.

All products available from Pactrol Solutions.com are competitively priced and free next working day tracked delivery is available to all UK orders over the value of £25. Shipping is available throughout Western Europe.

For more information, visit www.pactrolsolutions.com

or call +44(0)1942 529250

Email: sales@pactrolsolutions.com

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New models are continuously under development.
For further information visit our Website
www.pactrolsolutions.com or contact the
sales team at sales@pactrolsolutions.com
Pactrol Controls reserve the right to change the
specification of any product range without notice.



Meet the Pactrol Solutions Team

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Leanne Cody **Trade compliance Administrator.**

Leanne is responsible for processing your order and can answer questions regarding parts availability. She also ensures that our legal duty with regard to Trade Compliance is fully adhered to.

Contact:

Tel: +44(0)1942 529250

Email: sales@pactrolsolutions.com

Ceri Marsh **Import/Export Manager**

Ceri is responsible for Import and Export as well as all internal sales.

Paulene Scaldwell

She can advise on pricing and lead time on volume orders

Paulene is also available to answer any questions on availability and volume orders.

Contact:

Tel: +44(0)1942 529250

Email: sales@pactrol.com

Philip Scaldwell **Customer Service Manager**

If you require technical assistance or advice on any Pactrol product please contact Phillip who will be pleased to help.

Contact:

Tel: +44(0)1942 529250

Email: support@pactrolsolutions.com

David Beeston **Webmaster Pactrolsolutions.com**

Please contact Dave if you have any problem using the Pactrol Solutions website or if you have any suggestions on how we can improve or service or product range.

Contact:

Tel: +44(0)1942 529250

Email: webmaster@pactrolsolutions.com

New from Pactrol

CSS2

Digital Replacement for CSS.

The CSS 2 family of cost-effective, gas safety controls is designed to satisfy the exacting control needs of a wide range of commercial appliances, where a fully enclosed, IP40 construction is essential. Pactrol's proven record digital design has been applied to this comprehensive range of commercial controls units, suitable for a wide range of commercial applications including:

- Catering appliances
- Commercial boilers
- Space heaters

Key Features

- Replaces current CSS range
- Intermittent Pilot or Direct Burner Ignition for non fanned applications
- Digital Timing
- Phase sensitive flame detector
- Integral spark generator
- Single or dual probe operation (Configured on installation)
- Volatile or Non-volatile Lockout
- Alarm Output
- Remote Reset (switched neutral allowing common reset line)
- Front panel status (flame/diagnostics)
- IP40 housing
- Separate base with wiring terminals
- CE Approval EN298:2003
- RoHS Compliant

Models currently available (more available soon)

Existing Model No	Description	New CSS 2 Model No	Description
404700	CSS 01-12(CE)	429100/V01	CSS2 STV 01
404700/V02	CSS 01-12S(CE)	429100/V01	CSS2 STV 01
404700/V11	CSS 01-12SJ(CE)	429103/V01	CSS2 PRTV 01
404700/V14	CSS 01-12SJ V14(CE)	429103/V01	CSS2 PRTV 01

N.B. The New CSS 2 base is different from the original CSS base and needs to be changed to use CSS 2 in existing applications



PACTROL P16 D/B RANGE

Features

- Fully automatic control.
- Models approved by BG plc to EN298 and some ANSI Standards
- Models available for forced draught and atmospheric burners up to and beyond 60KW
- RoHS Compliant



Options include

- Single Probe.
 - Dual Probe.
 - Slow Spark : Nominal 5HZ spark rate (for use on domestic appliances).
 - Fast Spark : 50HZ spark rate (for use on commercial/industrial heaters etc.).
 - Air pressure switch proving for forced draught (fanned) appliances.
 - Option of electrical reset on lockout (IE control can be reset by switching mains supply switch or resetting thermostat as approved by BG plc).
- Manual reset on lockout reset by manual interruption of reset circuit. (ie control cannot reset by interrupting mains supply or by cycling of thermostat).

Applications:

- Domestic boilers.
- Radiant tube heating.
- Commercial boilers.
- Commercial air heaters.
- Catering appliances.
- Process heating.
- Agricultural heaters.
- Domestic room heaters.

Construction

IP40 housing, dimensions, 140 x 100 x 54 mm, 10 way plug in connections

Models available from Pactrol Solutions

Model	Product Number	Spark Freq	Tp/Tw	Ts	Probe Config	Flame Sensitivity	Connection
P16 DI (CE)	400601	50Hz	12 -24S	5 - 10S	Dual	2.0µA (+/-20%)	10 Way
P16 DIS/V03 (CE)	400601/V03	50Hz	12-24S	5 - 10S	Single	2.0µA (+/-20%)	10 Way
P16 DIS V12 (CE)	400601/V12	50Hz	6 - 12S	5 - 10S	Dual	2.0µA (+/-20%)	10 Way
P16 DI DUAL V23(CE)	400601/V23	50Hz	12 - 24S	5 - 10S	Dual	2.0µA (+/-20%)	10 Way
P16 TYPE B (CE)	402701	5Hz	6 -12 S	4.5 - 9S	Dual/Single	2.0µA (+/-20%)	10 Way
P16 TYPE B V03 (CE)	402701/V03	5Hz	2.5 - 5.5S	4.5 - 9S	Dual/Single	2.0µA (+/-20%)	10 Way
P16 TYPE D (CE)	402901	5Hz	12 -24S	5 - 10S	Dual/Single	2.0µA (+/-20%)	10 Way
P16 DTC (CE)	402901/V03	5Hz	10- 15S	4.5 - 9S	Dual	2.0µA (+/-20%)	10 Way

PACTROL P16 FI/HI RANGE

Features

Fully automatic control.

Approved by BG plc to EN298 and some ANSI Standards.

Models available for forced draught and atmospheric burners up to and beyond 60KW.



Applications:

Tube heaters

Catering appliances

Warm air heaters

Domestic and commercial appliances Driers

Construction

IP40 housing, dimensions, 140 x 100 x 54 mm, 12 way plug in connections

RoHS Compliant

Models available from Pactrol Solutions

Product	Product Part No.	Spark Freq.	Tp/Tw	Ts	Probe Config.	Flame Sensitivity	Connection
P16 FI (CE)	406203	50Hz	30---80s	2.5---5s	Dual	2.0µA (+/-20%)	12 Way
P16 FIS (CE)	406203/V01	50Hz	30---80s	2.5---5s	Single	2.0µA (+/-20%)	12 Way
P16 HI (CE)	406203/V04	50Hz	30---80s	2.5---5s	Dual	2.0µA (+/-20%)	12 Way
P16 FI V05 (CE)	406203/V05	50Hz	30---80s	15---25s	Dual	2.0µA (+/-20%)	12 Way

Accessories for P16 Range



Pactrol Part Number : **60427**
10 Way Connector for
Pactrol P16 DI and P16 D/B Ranges



Pactrol Part Number: **60428**
12 Way connector for
Pactrol P16 FI/HI Range

PACTROL CSS RANGE

A compact low cost fully automatic control with integral spark generator for atmospheric and small forced draught burners designed to meet GAD requirements.

Description

The Pactrol CSS provides automatic ignition control and flame supervision for gas burners with inputs of up to 60kW (forced draught) or above (atmospheric).

It is for use with either direct main burner ignition or pilot burner ignition systems on 1st and 2nd family gas appliances.

A prepurge period and ignition safety period are provided. Flame supervision is by flame rectification with the option of UV sensing with the addition of our special Pactrol UV head.

The control will make a re-ignition attempt following flame-failure. If any ignition attempt is unsuccessful, the control will go to lock-out, only being reset by interrupting the electrical supply.

Outputs are provided for a two stage gas valve, within the ratings specified. Ancillary controls such as time switches or thermo-stats etc are normally arranged to switch the electrical supply to the control. Direct control of the main burner only while operating a continuous pilot is not recommended.

A supply voltage surge arrestor is fitted.

Construction

IP40 housing, dimensions, 95 x 100 x 63 mm.



Pactrol Part Number: **91115**
Replacement 8 CSS Way Base

Models available from Pactrol Solutions

Product No.	Model Number	Ignition (Ts)	Wait (Tw)	Sensitivity
404700	CSS 01-12(CE)	6 - 12 secs.	6 - 12 secs.	1.0 - 2.0uA
404700/V02	CSS 01-12S(CE)	6 - 12 secs.	6 - 12 secs.	1.0 - 2.0uA
404700/V11	CSS 01-12SJ(CE)	6 - 12 secs.	6 - 12 secs.	1.0 - 2.0uA
404700/V14	CSS 01-12SJ V14(CE)	6 - 12 secs.	6 - 12 secs.	1.0 - 2.0uA
406100	CSS 01-4(CE)	2.7 - 4 secs.	15 - 20 secs.	1.0 - 2.0uA
406700	CSS 01-24(CE)	12 - 24 secs.	12 - 24 secs.	1.0 - 2.0uA
406700/V01	CSS 01-24R(CE)	15 - 25secs.	15 - 25 secs.	0.2 - 0.9uA
406700/V02	CSS 01-24RE(CE)	5 - 7 secs.	15 - 25 secs.	0.4 - 0.8uA

Pactrol CSA / CSM Range

CSA 6 and CSA 12

The Pactrol CSA provides automatic ignition control and flame supervision for gas burners with direct inputs of up to 60kW (forced-draught), or above (atmospheric). It is suitable for use with either direct main-burner ignition or pilot-burner ignition systems.

Model	Product Number	Tp	Ts
CSA 6	400200	10 S	4.5
CSA 12	400200/V01	10 S	9



CSM and CSMV

A compact semi-automatic control for all types of gas burner. The control has push-buttons for START and STOP functions, and a 'flame-on' indicator lamp. Flame supervision is by flame-rectification, with the option of ultra-violet sensing by the addition of our special UV head.

The control is intended for applications where the burners are not left running unattended for long periods. It is not suitable for permanent pilot systems.



Model	Product Number	Voltage
CSM	400900	240VAC
CSMV	401000	110VAC

Pactrol Energy Saving Products

Pactrol Part Number **403901**.

The famous Pactrol "Weather Watcher" automatically adjusts the amount of heat stored in an off-peak heating installation in response to changes in weather overnight.

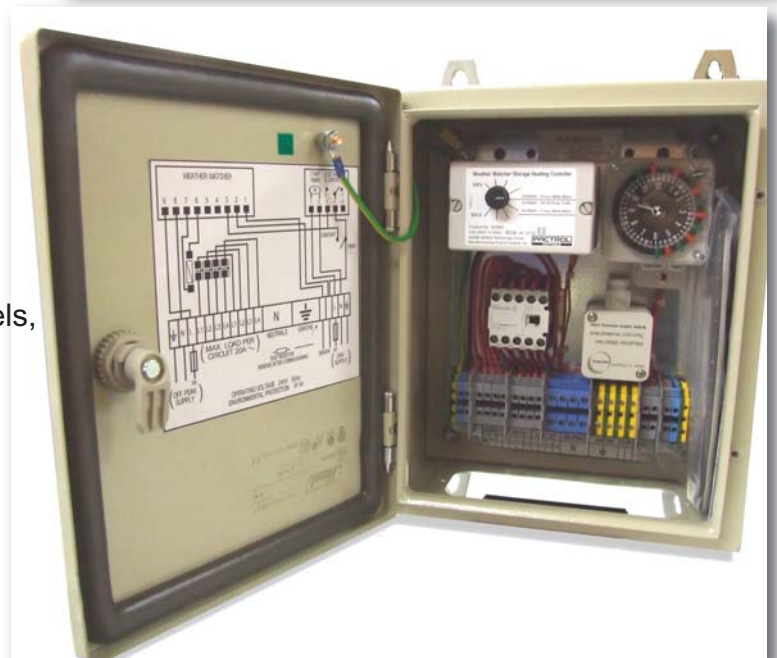
By providing just the right amount of heat at the most economical time, to give maximum comfort at minimum cost. In most cases, this means a reduction in consumption and tests have shown that this can be as high as 30%



Pactrol Part Number **408500**.

The Pactrol Commercial Weather Watcher controller has been designed especially for controlling electric off-peak storage heating systems in commercial buildings, schools, hotels, shops, libraries, public houses and clubs. The unit is based on the already successful Weather Watcher.

**Non Stock item - built to order -
4 to 6 weeks Delivery**



Pactrol Part Number **404800**.

Using the Pactrol WHB2 Water Heater Boost timer consumers can take advantage of cheaper off peak electricity, and still have hot water on tap.

The Pactrol Water Heater Boost Timer (WHB2) enables you to obtain the full benefit of low cost off peak tariffs such as Economy 7 and White Meter, while giving you the facility of topping up your tank at any time during the day.



P13 and P14 Range

P13 MK II

Pactrol Part Number:**401801**

P13 MK II - An automatic full sequence control with two separate flame detection circuits

Used on Falcon G7011, G7004, G7008, G1808, G1838, G1848 convection ovens.



P14 110A

Pactrol Part Number:**401900**

The Pactrol P14 110A provides automatic ignition control and flame supervision for gas burners with inputs of up to 44kW (forced draft) or above (atmospheric).



P14 110 AL

Pactrol Part Number:**402000**

For Radiant Gas heaters



8 PIN PLUG FOR P13/P14

Pactrol Part Number:**60367**



Pactrol UV Flame Sensors

A compact, gas tight ultra-violet flame sensing head giving rectification compatible output. Tested and approved by BG plc, the unit is specifically designed to operate with all Pactrol burner controls in applications where probe detection is not feasible.



Description

The UV head gives a rectification compatible output enabling all Pactrol Gas Burners to be operated on either flame rectification (electrode) sensing or ultra-violet flame sensing without any modification to the Pactrol control.

Construction

The Ultra-violet sensing head and associated circuitry is housed in a robust gas tight aluminium housing. The viewing end of the housing is protected by a 2mm thick quartz window.

The Ultra-violet sensing head is designed to be attached to the viewing tube or burner by means of a 1/2" BSP thread.

Electrical connections are made through a 4 pin plug and socket, simplifying installation and replacement.

The printed circuit board mounted voltage-multiplier enables the UV flame sensing head to be operated consistently over a wide range of mains voltages.

IP40 housing, diameter, 104 x 25.4 mm

Models

Pactrol Part Number: **401500** - UV - Voltage: 220-240V - 50/60 Hz

401600 - UV/V - Voltage: 110-120V - 50/60 Hz

Price List From 1st October 2009

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(All prices are Exclusive of VAT)

Page Number	Product Number	Name	Price
5	429100/V01	CSS2 STV 01	£90.00
5	429103/V01	CSS2 PRTV 01	£90.00
6	400601	P16 DI	£95.00
6	400601/V03	P16 DIS (NF)	£95.00
6	400601/V12	P16 TYPE DIS V12 (CE)	£95.00
6	400601/V19	P16 TYPE DIS V19 (CE)	£95.00
6	400601/V23	P16 DI Dual V23	£95.00
6	402701	P16 TYPE B (CE)	£95.00
6	402701/V02	P16 B A/FL	£95.00
6	402701/V03	P16 TYPE B V03 (CE)	£95.00
6	402901	P16 TYPE D (CE)	£95.00
6	402901/V03	P16 DTC (CE)	£95.00
7	60427	P16 10 WAY CONNECTOR	£5.00
7	60428	P16 12 12 WAY CONNECTOR	£5.00
7	406203	P16 FI (CE)	£95.00
7	406203/V01	P16 FIS V01 (CE)	£95.00
7	406203/V04	P16 HI (CE)	£95.00
7	406203/V05	P16 FI V05(CE)	£95.00
8	91115	CSS BASE - 8WAY	£30.00
8	404700	CSS 01-12 (CE)	£160.00
8	404700/V02	CSS 1 12S (V02) (CE)	£160.00
8	404700/V11	CSS 1-12SJ (SP)V11 (CE)	£160.00
8	405301	CSS 04C	£200.00
8	406100	CSS 01-4 (CE)	£200.00
8	406700	CSS 01-24 (CE)	£160.00
8	406700/V01	CSS 01-24R (CE)	£160.00
8	406700/V02	CSS 01-24 R/E (CE)	£160.00
8	404700/V14	CSS 01-12SJ V14 (CE)	£160.00
9	400200	CSA 6	£160.00
9	400200/V01	CSA 12	£160.00
9	400900	CSM -230VAC	£150.00
9	401000	CSM/V - 110VAC	£150.00
10	403901	WEATHER WATCHER	£120.00
10	404800	WHB 2	£69.00
10	408500	COMMERCIAL WEATHER WATCHER	£530.00
11	401801	P13 MK2 (CE)	£130.00
11	401900	P14 110A	£145.00
11	402000	P14 110 AL	£145.00
11	406400	P14 110 D	£150.00
11	60367	8 PIN PLUG FOR P13/P14	£5.99
12	401500	FLAME DETECTOR UV - 240V	£170.00
12	401600	FLAME DETECTOR UV/V - 110V	£170.00

How to Order

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Visit www.pactrolsolutions.com and use our fast and secure ordering system

On all UK orders over £25 placed before 3.00 pm we offer free next working day tracked delivery via UPS.

We deliver to the UK and the following EU member countries only:-

Austria

Belgium

Denmark

Finland

France

Germany

Hungary

Ireland (Inc Northern Ireland)

Italy

Luxembourg

Netherlands

Spain

Sweden

Free Next day delivery is not available to non UK customers and delivery can take between 2 and 6 days after dispatch.

For orders from countries not listed above please contact our sales department who will be happy to help. Phone +44(0)1942 529250

Delivery Charges for UK and Non UK Orders.

Zone	Country	Delivery charge - up to 3Kg
	UK Order value of less than £25.00	£5.50
	UK Order value more than £25.00	FREE
1	Ireland, (Inc Northern Ireland) Belgium, Luxembourg, Netherlands, France, Germany	£16.00
2	Austria, Denmark, Finland, Hungary, Italy, Spain, Sweden	£19.50

For orders over 3Kg we will advise via email if additional charges may apply.

Free Next working day delivery is subject to availability and excludes Bank Holidays.

For orders from countries not listed above, please contact our Sales line +44(0)1942 529250

Volume Orders

For volumes over 50 units please contact our Sales Team on +44(0)1942 529250 who will be pleased to discuss competitive volume pricing and lead time.

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