P16 Range Fully proven Full Sequence Controls



technology factfile

The P16 range is a complete family of fully proven, full sequence controls designed to meet the needs of appliance manufacturers. All controls are fully approved to EN 298 and meet all the essential requirement of the Gas Appliance Directive.

The P16 range of full sequence controls is ideal for use in atmospheric and forced draught appliances, with either single or 2 stage ignition sequences. The family consists of both volatile and non-volatile lockout versions and has an integral spark ignition generator for operation in dual or single electrode applications.

The P16 range has a well proven track record and, over the years, has become an industry standard, with its highimpact, flame retardant housing, screw connectors and wide variety of variants.



Typical applications

- Combination Boilers
- Condensing Boilers
- Heating Boilers
- Water Heaters
- Warm Air Heaters
- Radiant Tube Heaters

key features

- CE Certified to EN298
- Well-proven range of controls
- Integral spark and flame detection
- Single or dual electrode operation
- Volatile or non-volatile lockout functionsAtmospheric or fanned applications
- Single or 2 stage ignition sequences
 - Strong, flame retardant enclosure
- Non-reversible, screw based connector







To keep abreast of current developments, controls may be subject to change without notice. Such changes may affect the accuracy of information contained in this data-sheet, and the manufacturers advice should be sought if any problems arise.

P16 option chart

Product Model	Product Reference Number	Spark Rate	Manual Reset	Air Proving	1 or 2 Stage Ignition	Detector Sense u A	Flame Detector Response Time	Probe Option	Purge Time (secs.) TP	lgnition Time	Supply Volts	Connection Method (xxxxx)	Approval Authority
P16A	402601	5 HZ	NO	NO	1	1 ± 0.2	<2 s	S or D	6-12	5-10	240	10 WAY EDGE + HT	
P16AV	405801	2-4 HZ	NO	NO	1	1±0.2	<2 s	S or D	6-12	5-10	110	10 WAY EDGE + HT	CE
P16B	402701	5 HZ	NO	No	2	1±0.2	<2 s	S or D	6-12	5-10	240	10 WAY EDGE + HT	CE
P16C	402801	5 HZ	No	YES	1	1 ± 0.2	<2 s	S or D	6-12	5-10	240	10 WAY EDGE + HT	
P16D	402901	5 HZ	NO	YES	2	1 ± 0.2	<2 s	S or D	6-12	5-10	240	10 WAY EDGE + HT	CE
P16DI	400601	50 HZ	NO	YES	2	1 ± 0.2	<2s	DUAL	6-12	5-10	240	10 WAY EDGE + HT	CE
P16DIS	400601 VAR03	50 HZ	No	YES	2	1 ± 0.2	<2s		6-12	5-10	240	10 WAY EDGE + HT	CE
P16F	403101	3-4 HZ	YES	YES	2	1±0.2	<2s	S or D	6-12	5-10	240	12 WAY EDGE + HT	CE
P16F1	406200	50 HZ	YES	YES	2	1 ± 0.2	<2s	DUAL	30-40	3-5	240	12 WAY EDGE + HT	CE
P16H	403301	3-4 HZ	YES	NO	2	1±0.2	<2s	S or D	6-12	5-10	240	12 WAY EDGE + HT	CE

Technical specification

Electrical Supply	Voltage: 230V + 10% - 15% except P16AV 110V + 10% - 15%					
	Frequency: 50 Hz					
	Consumption: 5VA					
Ambient Temperature	-5Þc to + 60Þc					
Humidity	Maximum of 95% RH					
Ignition Generator	Open circuit voltage at 30pF	12KV				
	Energy Output	10MJ				
	Spark Gap Tolerance	2.5mm to 4.00mm				
	H.T. Lead Length	1 Metre Maximum				
Switching Capacity	1st Stage Gas Valve GV1	1A Maximum				
	2nd Stage Gas Valve GV2	1A Maximum				
	Air Pressure Switch Proving Relay	1A Maximum				

dimensions

Overall Dimensions 140mm x 100mm x 54mm



Sequence of Operation and Wiring Details for P16 Range

The following options are intended for use on atmospheric applications where air pressure switch proving is not required.



The following options have an integral air pressure switch proving relay and are intended for use on forced draught burner applications.

