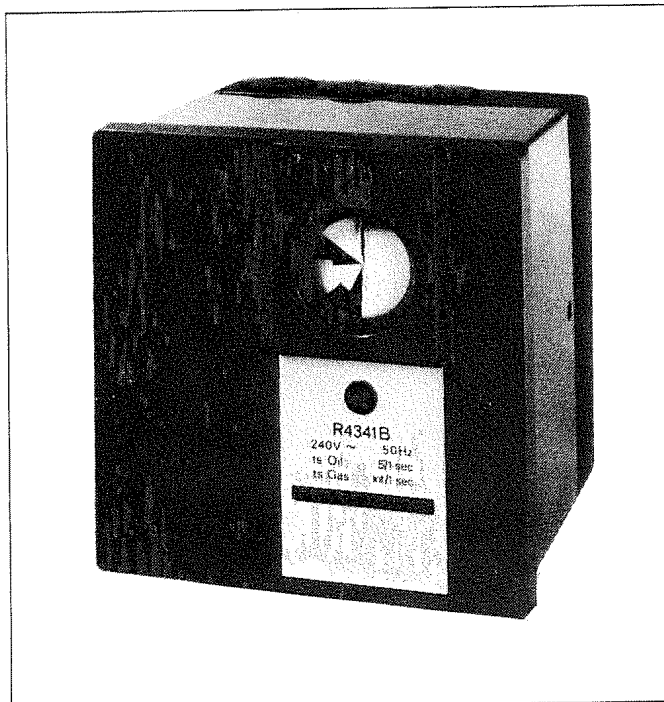


Application

The R4341 flame safeguard programmer provides automatic sequencing control of burner motor, pilot valve, ignition and main fuel valve of large industrial and commercial burners using gas, and/or oil. A motor driven cam timer provides precise sequencing which includes the following periods: pre-ignition, pre-purge, pilot stabilization, main flame trial, main flame stabilization, release to modulation, and post-purge. Switching functions use 220 V line voltage. A start interlock can be used to prevent abnormal starts. A combustion air switch for example proves air flow during pre-purge. Interrupted pilot, intermittent pilot to direct ignition of the main burner, may be used. Three different plug-in flame amplifiers are available for use with ultraviolet, rectification and cadmium sulphide sensors. R4341D is especially for the control of atmospheric gas-burners, for use with R7321 Rectification amplifier. This model can accept 1 or 2 flame rod sensors and has facilities to switch out one detector.



Features

- Visual indication of position in the sequence. *
- Plug-in sequencing chassis equipped with quick-connect contacts. Mounts on subbase suitable for surface or panel mounting.
- Flame current meter jack permits direct monitoring of the flame signal.
- Two pilot timings available with each basic model, suitable for oil-gas.

A «release-to-modulation» signal is provided which can be used to power a second main valve.

- Two separate terminals for gas or oil pilot valve.
- Plug-in amplifiers.

* U.K. Reg. Design 948356.

Accessories

R7321A - Plug-in amplifier (green). Rectification type.

Flame response 1 s. For use with C7004B, C7008/9A flame rods; C7003A, C7010A, C7013A, C7014A visible light sensors and C7012A/C/G UV detectors.

R7323A - Plug-in amplifier (purple). UV type. Flame response 1 s. For use with C7027A, C7035A and C7044A sensors.

R7326 - Plug-in contact input amplifier for R4341 in multiburner installations.

Q641A1000 - Subbase, if required.
W136A - Microammeter (includes 117053 Plug).

Approvals

The R4341A has 2 and 5 s pilot trial possibilities to meet DIN-requirements.

The R4341B has 5 s or intermittent pilot trial possibilities to meet British Gas Council requirements.

The R4341C has 3 or 5 s pilot trial possibilities to meet Dutch appliance approval requirements.

Specifications

Maximum load ratings:

Pilot Valve	: 125 VA Pilot Duty.
Main Valve Terminal	: 250 VA at 10 times in-rush. 400 VA at 2.5 times in-rush.
Blower Motor	: 3 A at 220 V full load, 9 A locked rotor.
Alarm:	75 VA Pilot Duty.
Ignition Transformer	: 540 VA.

Ambient temperature limits: - 10 to + 45°C

Maximum humidity: 93% R.H.

Enclosure: IP40 (splash proof, if panel mounted)

Dimensions (mm): Height 144, width 144, depth 122 (DIN).

Ordering information

Model Numbers	Supply Voltage (Vac) at 50 Hz	Pre-Purge (s)	Pre-Ignition (s)	Pilot times (s)				Main valve times (s)				Post-Purge time (s)	Remarks
				PV1 (gas) trial stab.	PV2 (oil) trial stab.	MV1 (gas) trial stab.	MV2 (oil) trial stab.						
R4341A1023	220	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	a, d, e
R4341A1031	115	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	a, d, e
R4341A1049	220	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	a, e
R4341A1056	115	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	a, e
R4341B1088	220	38	5	4.5	7.5	4.5	7.5	Intermittent		4.4	3.6	12	d, e
R4341B1096	240	38	5	4.5	7.5	4.5	7.5	Intermittent		4.4	3.6	12	b, c, d
R4341B1104	115	38	5	4.5	7.5	4.5	7.5	Intermittent		4.4	3.6	12	b, c, d
R4341B1112	220	38	5	4.5	7.5	4.5	7.5	Intermittent		4.4	3.6	12	c, d, e
R4341B1120	220	38	5	4.5	7.5	4.5	7.5	Intermittent		4.4	3.6	12	e
R4341B1138	220	38	8		1.5			2	6			12	e
R4341B1146	240	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	c, e
R4341B1153	115	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	c, e
R4341B1161	220	38	5	4.5	7.5	4.5	7.5	1.4	6.6	4.4	3.6	12	c, e
R4341C1052	220	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	d, e
R4341C1060	240	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	d, e
R4341C1078	115	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	d, e
R4341C1086	220	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	e
R4341C1094	240	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	e
R4341C1102	115	70	Gas 4.7/Oil 3	2.8	7.5	4.5	7.5	Intermittent		4.4	6.6	9	e
R4341D1035	220	38	9.5	Continuous				8				12	e
R4341D1043	220	8	9.5	5	3			8	10			40	e
R4341D1050	240	8	9.5	5	3			8	10			40	e

^a DIN approved

^b British gas council approved

^c With dynamic air proving

^d With remote reset

^e Not recommended for use in U.K.