R.K. Instruments & Controls

TECHNICAL DATASHEET

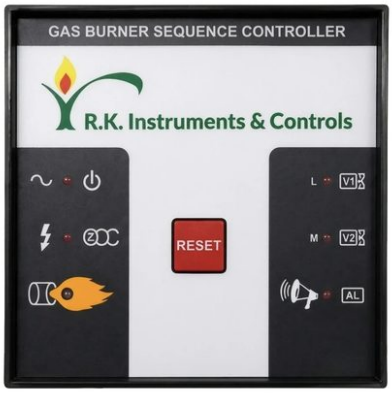
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Gas Burner Sequence Controller

Brand: R.K. Instruments & Controls | Code/Part No.: GBSC | Category: SEQUENCE CONTROLLERS

Specifications

Type	**Burner Sequence Controller (2-Stage, Low/High Flame)**
Burner Type	**Gas Burner (Two Stage — Low Flame / High Flame)**
Supply Voltage	**230 VAC**
Flame Detection Method	**Flame Rectification (Ionization Probe) — built-in NO/NC flame relay, no**
Sequence Timing	**Ignition after 11s · SV1 (Low Flame) 1.5s after Ignition · SV2 (High Flame)**
Terminal Configuration	**L — Line · N — Neutral · BL — Blower Motor · IG — Ignition Transformer · SV1**
Reset	**Manual front-panel RESET button; external reset terminal available on**
Box Size	**Panel Cut-Out 92 x 92 mm · Mounting Depth 80 mm**
Application	**Industrial Gas-Fired Heating, Two-Stage Burner Control**
Manufacturer	**R.K. Instruments & Controls**



Description

The R.K. Instruments & Controls Gas Burner Sequence Controller is an in-house manufactured burner sequence controller for industrial gas-fired burners, operating on a 230 VAC supply. On power-up the Blower Motor (BL) output energizes immediately; after an 11-second pre-purge delay the Ignition Transformer (IG) output energizes, followed 1.5 seconds later by the low-flame Solenoid Valve (SV1) output. Flame is verified within milliseconds by a flame-rectification (ionization probe) sensing circuit — the built-in flame relay's NO/NC contacts remove the need for a separate external NC connection — and 12 seconds after flame is confirmed, the high-flame Solenoid Valve (SV2) output energizes for two-stage firing. If flame is not sensed, the controller enters Alarm/Lock Out mode, switching off the Ignition, SV1 and SV2 outputs and indicating burner-off on the Lock Out (LO) / alarm siren output; restart is via the front-panel manual RESET button, or an optional external reset terminal on request. Manufactured and supplied by R.K. Instruments & Controls for industrial gas-fired heating applications.

Typical media compatibility: CNG, PNG, LPG, Air, Nitrogen — confirm against application before installation.