

North American Sentry Combustion Control System

Bulletin 8888

Safeguard and Control Single Burner System

- Single burner flame supervision
- Single or dual fuel
- Choice of flame scanners:
UV, UV self-check, and flame rod
- Optional high temperature limit
- Optional 1400°F bypass
- Optional process temperature controller
(with or without ramp/soak)
- Robust printed circuit board assembly
- UL listing available
- Fused outputs
- Start-up mode toggle switches
(hold low fire for tuning)
- Plug-in components
- Wiring for mini-fuel train and valve
proving system
- Wiring for large selection of compatible
actuators



The RM7888A Flame Relay has been a successful joint development project between North American, a primary leader in combustion solutions, and Honeywell, a global leader in electronic technology. This synergistic effort has led to product features that include Flame Scanner choices, direct spark or pilot ignition offering relight capabilities, control motor operation, and PLC interconnection--all in one simple to operate unit.

Other features include an adjustable purge timer, plug and play components, and fused outputs. Its NEMA 4X enclosure with a transparent window assists in monitoring burner status LED's and the optional keyboard display module.

The 8888 Sentry Combustion Control System is an innovative control system that is part of North American's family of dependable, accurate, and time-tested 8880 combustion control solutions. This system incorporates North American's designed circuitry that meets your existing needs, while offering the ability to expand its functionality, based on your increased demands. Optional high temperature limit and process temperature controller can be panel mounted and terminals are provided for remote mounted controllers or high limits. Timing and lighting sequences meets NFPA and other insurance underwriters requirements.

SPECIFICATIONS

- NEMA 4X enclosure, 16" H x 14" W x 8" D, with window to observe system status
 - Power requirements: 120 V ac, 50 or 60 Hz, 8 A max.
 - Door mounted equipment: run/stop pushbutton, auto start selector
 - Flame relay: Honeywell RM7888A
 - Status LED's: Power, pilot, flame on, main fuel powered, and alarm
 - Board mounted switches:
 - Power
 - Fuel select
 - Motor low or force modulation*
 - Pilot only or main valve select*
 - Board mounted status LED's:
 - Main power on
 - Common limits
 - Fuel 1 limits
 - Fuel 2 limits
 - Limits complete
 - Purging
 - Low fire
 - Main fuel open
 - Provision for limit terminations:
 - Five common limits
 - Three fuel 1 limits
 - Three fuel 2 limits
 - High temperature limit
- Terminations: 66 terminals in 2 staggered rows to simplify connections, accept up to AWG 12 wire
 - Dry contact outputs, form C for limits complete, fuel off, and lock out alarm. Contact rating 120 V ac, 2 A
 - Options (panel rated NEMA 12 with controllers mounted)
 - High temperature limit controller
 - Process temperature controller (4 to 20mA or 120 V output)
 - Ramp/soak controller available
 - UL classification of panel (UL508)
 - UV, self-check UV, or flame rod sensors
 - Cabinets available:
 - Fiberglass
 - Painted metal
 - Stainless steel
 - Spare parts, replaceable plug-in components:
 - Relay (LCR, ACR)
 - Relay (FOCR, FSCR)
 - Timer (PTR)
 - Flame relay
 - Fuse, 10 A, slow blow
 - Fuse, 3 A, fast blow

* Used for start-up



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