

**NO
EXCUSES!**

SIGNALING



RT-3000

Nema 4X Duct Smoke Detectors
Weathertight, Hi-Temp, Low Flow & No Tools

FEATURES

- 180° visibility for all visual indicators with cover in place
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Patented cover tether retains the one-piece cover at unit
- Flashing LED on detector head indicates normal operation, can be viewed with cover on
- Ionization and Photoelectric versions available
- Interconnect up to 30 units for common functions
- Works with the complete range of APC remote accessories to include all legacy duct detectors and sample tubes from APC
- Compatible with building automation and fire alarm systems
- SSU-FASTTUBE Equipped (see page 2)

Installation - Mechanical

- Patented cover latch offers the industry's only no-tools single point cover assembly
- Patented cover tether keeps cover at unit for convenience
- Patented no-tools front or rear loading and removing sampling/exhaust tubes
- All gaskets are permanently attached and pre-installed

Installation - Electrical

- Patented no-tools terminal blocks for easier wiring with built-in test meter probe access
- Intuitively labeled terminal positions
- Dedicated and segregated terminal blocks for power input, FACU interface, relay control, remote accessories and detector interconnection
- No confusing "special programming" required
- Permanently attached wiring diagram on inside front cover
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- One set of 1A form "A" alarm contacts and one set of 7A form "B" trouble contacts for FACU interface Testing
- Patented Maintenance Mode offers 3-minute interval for test and maintenance functions with no extra trouble reports to the system (auto shut-off upon cover latch engagement)
- Patented Test Port allows for aerosol smoke testing without cover removal
- Magnet test capability (magnet included)

Service

- Standard interchangeable "twist-in" UL268 photoelectric or ionization heads for easy cleaning and replacement
- Advanced detector head design yields internal dust filtering
- Front no-tools sampling tube removal and replacement
- provides for simple inspection of debris accumulation
- Compatible with all legacy APC remotes, duct detectors and sample tubes

Performance

- NEMA 4X watertight enclosure for non-hazardous indoor and outdoor applications, to include corrosive environments
- Listed for air velocities between 100-4000 ft./min
- Ion and Photo models listed for applications ranging from -4°F to 158°F (-20°C to 70°C)



3240-1004:0121

**ISO 9001
REGISTERED
COMPANY**



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Specifications:

Air duct smoke detectors shall be SSU-RT-3000 Series. For ionization detectors the model number is SSU-RT-3000-N. For photoelectric detectors the model number is SSU-RT-3000-P. The detectors shall be listed by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 100 feet per minute to 4,000 feet per minute and at high temperatures of no less than 158°F (70°C). Shall provide visual pilot, trouble and alarm indications; shall provide instantaneous cover removal notification with maintenance by-pass. The detector enclosure shall be NEMA 4X rated and shall prevent accumulation of condensate within the detection chamber. Visual indication of alarm, trouble and power must be provided on the detector front, as well as a manual test and reset switch. Detector head shall not require additional filters or screens which must be maintained, and shall include both a standby and alarm visual indication. The housing shall contain a detector base which will accept photoelectric or ionization detector heads. Terminal connections shall require no tools for wire installation and shall be compatible with wire gauges between #14 and #22 AWG. Terminals shall be provided for remote pilot, remote alarm indications, strobe/horn, and remote test/reset switch. All wiring must comply with local codes and regulations. A method of testing the alarm function at the detector with a magnet and a method of smoke testing the detector without removing the cover must be provided. All unit, remote accessory, and common function connection designations must be permanently affixed to the unit. Cover and sampling/exhaust tube installation or removal must not require the use of tools. Capability for interconnection of up to 30 units shall be provided for common functions. Sampling and exhaust tubes shall be capable of removal/installation from the front and/or rear of the detector for inspection/maintenance.

POWER REQUIREMENTS: (without accessories)	230VAC 17mA
Standby:	115VAC 31 mA
	24VAC 122.6 mA
	24VDC 45 mA
Alarm:	230VAC 29 mA
	115VAC 50 mA
	24VAC 251 mA
	24VDC 100 mA

RELAY CONTACT RATING:

Alarm Contacts:	Resistive load: 2 sets form "C" rated at 10 Amps @ 125VAC
	Resistive load: 1 set form "A" rated at 1 Amp (FACP) @ 30VDC
Trouble Contacts:	Resistive load: 1 set form "C" rated at 10 Amps @ 125VAC
	Resistive load: 1 set form "B" rated at 7 Amps (FACP) @ 30VDC

AIR VELOCITY:

AMBIENT TEMPERATURE:

HUMIDITY:

WIRING:

APPROVALS:

MATERIAL:

DIMENSIONS:

MAX. NET WT.:

RADIOACTIVE ELEMENT:

HARDWARE:

100 to 4,000 ft./min.
 SSU-RT-3000-N -4°F to 158°F (-20°C to 70°C)
 SSU-RT-3000-P -4°F to 140°F (-20°C to 60°C)
 10% to 93% RH (@32°C) Non-Condensing / Non-Freezing
 Solid or stranded: #14 to #24 AWG terminals
 UL Listed (UL268A, UROX) File # S2829
 CSFM Listed (3240-1004:0121)
 MEA Accepted (73-92-E; VOL. 27) (pending)
 Grey plastic backbox, white plastic cover (Makrolon 94V-0)
 13 1/2" L x 5 1/2" W x 2 1/4" H
 3 1/2 lbs.
 For RT-3000-N (Ionization) Americium 241; 0.9 Micro-Curie
 7" exhaust tube, FAST Tube sectional sampling tube starter, sampling tube end cap, mounting template, test magnet, and mounting hardware included.

Ordering Information:

Part #	Description
SSU-RT-3000-N	Ionization: 230VAC, 115VAC, 24VAC, 24VDC 55000-225
SSU-RT-3000-P	Photoelectric: 230VAC, 115VAC, 24VAC, 24VDC 55000-328
SSU-55000-225	Replacement Ionization Detector
SSU-55000-328	Replacement Photoelectric Detector

SAMPLING TUBES:

SSU-FASTTUBE	Sectional sampling tube, kit fits up to 8' duct width
SSU-STN-1	Metal sampling tube for 6" to 12" duct width
SSU-STN-2	Metal sampling tube for 12" to 3.0' duct width
SSU-STN-5	Metal sampling tube for 3.0' to 5.0' duct width
SSU-STN-10	Metal sampling tube for 5.0' to 10.0' duct width



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