DP721RTA

700 Series Conventional Multi Detector w/ Relay Output & Auto Reset

Preventing false alarms with self diagnostics

All Aritech 700 series smoke detectors continuously monitor their sensitivity and operational status. Background drift is daily compensated to maintain the original calibrated sensitivity within the required limits.
Once a day the detector performs a full diagnostic test that includes dynamically testing the sensing chamber and internal electronics. If a detector drifts out of sensitivity range or fails the internal diagnostics test, this is reported back to the panel and indicated on the detector with a yellow fault LED.

Maintenance friendly sensitivity level test mode

The 700 Series photoelectric detectors include a sensitivity test mode that may be activated by simply holding a magnet near the detector's test point. This initiates a self-diagnostic routine and provides visual indication if service is required. This test mode allows field sensitivity testing without the requirement for external meters or test gas.

Field cleaning and service

The photoelectric sensing chamber unclips from the detector for easy field cleaning and service. During regular maintenance the detector cover can be removed, the optical chamber removed and replaced by a low cost, new chamber. On power up the detector auto-calibrates and returns to normal operating mode without any further intervention.

The right detector for the right job

For a truly fast and broad-spectrum detection the DP721RTA offers both optical and heat sensors. The interaction of both the smoke and heat algorithms ensure a quick response to both flaming and smouldering fires.
All bases are provided with an integral locking tab for extra security if required. Bases are equipped with a shorting bar between IN and OUT that opens when the head is installed and that may be manually restored when removing the head. This simplifies cable continuity testing.

Note:

The DP721RTA must not be used in applications requiring compliance with commercial or residential fire standards such as EN54-5/EN54-7/EN54-29/CEA4021/EN14604. Always ensure compliance with local codes and standards.

Standard Features

- Automatic self diagnostics with dynamic full detector and sensitivity test
- Manual self diagnostic routine with visual sensitivity indication
- Field sensitivity testing without external meters
- Field exchangeable and disposable optical chamber
- High false alarm immunity
- Floating background with drift compensation
- Separate fire and fault LEDs
- 12-24VDC operation
- Polarity insensitive
- COM/NO/NC contacts for easy supervision on any system
- Automatic reset when event clears

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Specifications

Operating voltage	8.5 - 33 VDC
Current consumption	
Quiescent	<100 µA
In alarm	<60 mA
Alarm indication	White LED (red alarm)
Fault/Sensitivity indication	Yellow LED
Relay specifications	2 A @ 30 VDC, 1 A @ 120 VAC
Relative humidity (noncondensing)	0 - 95%
IP rating	IP43
Environmetal temperatures	
Operating temperature	-10 to 60°C
Storage temperature	-10 to 70°C
Sensitivity	10%/m (+1.6%, -3.3%)
Heat specification	
Ambient	25°C
R.O.R.	NA
Fixed temp	>40°C
Reset voltage	2.5 V max
Reset time	Automatic
Dimensions (Ø x H)	100 x 50 mm
Approval	CE

Ordering Information

Part No.	Description
DP721RTA	700 Series Conventional Multi Detector w/ Relay Output & Auto Reset Feature
DB702	10 cm diameter base - 6 terminals
DB702U	15 cm diameter base - 6 terminals
211	Optical Replacement Chamber for 400, 500, 700 and 2000 Series Detectors

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