



700 Series of Conventional Fire Detectors

Features:

- Automatic self diagnostics: Dynamic full detector and sensitivity test
- Manual self diagnostic 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 LED
- 12 - 24 VDC operation
- Polarity insensitive
- Full range: optical, heat and optical/heat multi criteria sensor
- EN54 approved

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 EN54 sensitivity limits. Once a day the detector performs a full diagnostic test that includes dynamically testing the sensing chamber as well as the 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 photoelectric detectors include a sensitivity test mode that may be activated by simply holding a magnet near the detectors 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 thrown away 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.

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DATA SHEET

The right detector for the right job

For a truly fast and broad-spectrum detection a multi-criteria optical/heat sensor is also available. 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 reasons if required. They are also 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 line testing before detector installation to ensure continuity.

Ordering Information

DP72 1R	Photoelectric smoke detector with C/O relay output
DP72 1RTA	Photoelectric smoke and heat detector with relay output, autoreset 57° C and R.O.R. heat detector, with relay output
DT7 13-5R	
DB702	10 cm diameter base - 6 terminals

Specifications

	DP721-RTA	DT713-5R	DP721R
Operating voltage	8.5 - 33 Vdc		
Current consumption			
Quiescent at 24 VDC	100 µA, Max. 70 µA average		
In alarm at 24 VDC	60 mA		
Fault indication	Yellow LED		
Remote alarm output	30 mA		
Relay models	2 A @ 30 Vdc, 1 A @ 120 Vac		
Humidity	0 - 95%, Non-condensing		
IP rating	IP43		
Operating temperature	-10°C to 60°C		
Sensitivity	10%/m (+1.6%, -3.3%)		
Heat specification			
Ambient	25°C		
R.O.R.	NA	8° C/min and > 40° C	NA
Fixed temp	>40°C	57° C ± 1.5° C	NA
Reset voltage	2.5 V max		
Reset time	Automatic	1 sec	
Dimensions	10 cm Ø, H = 5 cm		

For further information on how we can help you, contact your local ADT office:

Austria - ADT Austria
Tel: 662 45 24 60 11
Website: www.adteurope.com

Hungary - ADT Hungary
Tel: +3614303700
Website: www.adthungary.com

Russia - ADT Russia
Tel: +7 (495) 661 2094
Website: www.adtrussia.com

Belgium - ADT Security Services SA,
Tel: 02 481 08 00
Website: www.adt-belgium.be

Ireland - ADT Fire and Security plc
Tel: 1620 5888
Website: www.adt.ie

Spain - ADT Servicios de Seguridad SL
Tel: 902 444 440
Website: www.adt-es.com

Czech Republik - ADT Security Center s.r.o.
Tel: 267 267 267
Website: www.adt-sc.cz

Italy - ADT Italy
Tel: 02 818061
Website: www.adtitaly.com

Sweden - ADT AB
Tel: 8 40 00 70 00
Website: www.adt-nordic.com

Denmark - ADT A/S
Tel: 70 80 70 00
Website: www.adt-nordic.com

The Netherlands - ADT Security Services B.V.
Tel: 010 258 4848
Website: www.adt-security.nl

Switzerland - ADT Switzerland
Tel: 0848 40 08 01
Website: www.adt-ch.com

Germany - ADT Deutschland GmbH
Tel: 0800 7070 238
Website: www.adt-deutschland.de

Poland - ADT Poland Sp. Z o.o.
Tel: 0 801 801 238
Website: www.adt.pl

United Kingdom - ADT Fire & Security plc
Tel: 0800 010 999
Website: www.adt.co.uk

Greece - ADT Greece SA
Tel: 210 92 43 400
Website: www.adt.gr

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Tel: 217 510 560
Website: www.adt-pt.com



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