



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1473	12-Oct-2001	Number 16	Issue date 1-May-2019	30-Apr-2020

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Product designation

System Sensor, WFDT Series, T-Tap, Vane Type, Water Flow Detectors

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

System Sensor, Ltd
3825 Ohio Avenue, ST CHARLES, IL, UNITED STATES, 60174

Conformance criteria and evaluation

The System Sensor, WFDT Series, T-Tap, Vane Type, Water Flow Detectors have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL listing'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. To be used in wet pipe systems only.
- ii. Do not in dry pipe, pre-action systems, or potentially explosive atmospheres.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The System Sensor, WFDT Series, T-Tap, Vane Type, Water Flow Detectors are designed for primary signalling in residential systems and branch line signalling in larger systems. The water flow in the pipe deflects a vane which produces a switched output, usually after a specified delay. All water flow detectors have a controlled mechanical delay mechanism. The delays do not accumulate. They are reset if the water flow stops before the entire delay has elapsed. All switches actuate when the water flow is 45.5 l/min or greater but will not actuate if the flow rate is less than 18.2 l/min. The detectors shall mount on any clear pipe span of the appropriate size, either a vertical or horizontal run at least 15.5 mm from any fittings or valves that may change water direction, flow rate or pipe diameter or no closer than 31 mm from a valve or drain.

The WFDT model incorporates a mechanical retard feature that minimises the risk of false alarm due to pressure surges or trapped in the sprinkler system. The mechanical retard's sealed design is immune to dust and other contaminants.

The System Sensor, WFDT Series, T-Tap, Vane Type, Water Flow Detectors are optionally equipped with tamper resistant cover screws to prevent unauthorised entry.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, WFDT Series, T-Tap, Vane Type, Water Flow Detectors and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Switch contact ratings:	10 A at 250 Vac 2.5 A at 24 Vdc
Trigger threshold flow rate:	18.2 to 45.5 litres/min
Static pressure rating:	1724 kPa
Dimensions installed:	
Model WFDT:	114 mm H x 95 mm W x 170 mm D
Model WFDTNR:	95 mm H x 82 mm W x 108 mm D
Operating temperature range:	0°C to 49°C
Enclosure rating:	NEMA Type 4 (as tested by Underwriters Laboratory, Inc.)
Shipping weight:	
Model WFDT:	1.2 kg
Model WFDTNR:	0.7 kg

Model	Pipe and Type Sizes			
	Ferrous & brass tees (mm)	Copper sweat tees (mm)	CPVC tees (mm)	Polybutylene Tees (mm)
WFDT	25	25	25	40
	32	32		
	40	40		
		50		
WFDTNR (non retard)	25	25	25	40
	32	32		
	40	40		
		50		