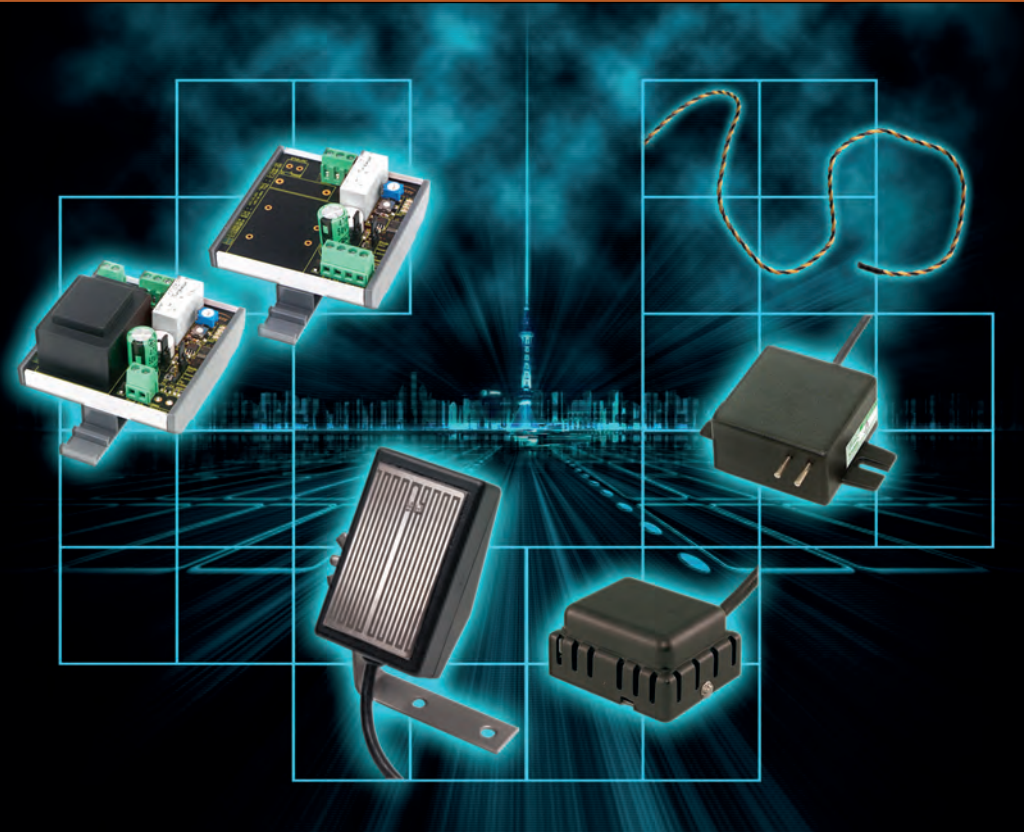# Sontay

... experts in Field Controls

Water Detection Alarm System

Control Safeguards

For chilled beam applications where control safeguards are required to avoid "indoor rain" conditions our WD-CBS condensation detector provides a low cost early warning solution.

Rainy Conditions

Point and rain sensors are used to determine the localised area where water is present and to offer indication of rainy conditions and requirement.

Leak Detection

The WD-CS cable sensor offers vital leak detection when laid under floors to give warning at the earliest sign of a leak.

Assurance in water detection with Sontay's versatile system

Sontay have a complete system for all of your water detection needs. The system is based around the WD-AMX alarm module which can be used with a range of water detection devices to give early indication of the presence of water.

The WD-CS cable sensor offers vital leak detection when laid under floors to give warning at the earliest sign of a leak. They are available in various standard lengths as well as custom specified lengths up to 200m.

Our WD-PS point sensor is used to determine the localised area where water is present to identify where there is an issue. A rain sensor, WD-RS, is also available to offer indication of rainy conditions and requirement to close ventilation ducts and other vulnerable areas where rain may enter a building.

- **AC detector excitation for reliability**
- **24Vac/dc or 230Vac versions**
- **LED indication of leak status**
- **Manual or auto reset alarm output**
- **Audible alarm**
- **Quick and simple to install**

Specifications

Water Detection Alarm System

The WD-AMX range of Water Leak Detection Modules are designed for use with the WD-CS, WD-PS and WD-RS range of water leak detection sensors. They are suitable for DIN-rail mounting inside AHUs, power distribution units or general areas where leak detection is required.

They are fitted as standard with LED indication of the water leak status, and sounder that can be disabled by simply removing a jumper. The WD-AMX relay output can either configured to be manual or auto reset. A relay output provides an alarm signal that can be used for connection to a BMS controller or remote alarm annunciation panel such as the UI-AA1-F.

Features

- AC detector excitation for reliability
- 24Vac/dc or 230Vac versions
- LED indication of leak status
- Manual or auto reset alarm output
- Audible alarm

Supply:	WD-AMX-1 15 to 30Vac/dc ±10%
	WD-AMX-2 230Vac @ 50Hz
Supply current:	50mA max.
Output:	SPDT relay 12A @ 230Vac
Response time:	<1 sec. after exposure
Sensors:	WD-CS, WD-PS, WD-RS
Max. sensor cable length:	200 metres (with leader cable)
Audible alarm:	85dB @ 2.3 kHz at 10cms.
Ambient:	Temp. 0 to 40°C
	Humidity 0 to 80% RH non-condensing
Dimensions:	72 x 64 x 55mm
Weight:	WD-AMX-1 100g
	WD-AMX-2 240g

Part code	Description
WD-AMX-1	24Vac/dc Controller with buzzer
WD-AMX-2	230Vac Controller with buzzer

Data sheet – WD-AMX.pdf

Water Leak Detection Cable

These Cable Sensors are typically used to detect water leaks under floors and are used in conjunction with a WD-AMX controller module. Optional fixing clips are available.

Features

- Easy to lay
- Detects water along its entire length

Material:	PVC twisted pair with stainless 316 elements
Dimension:	3.5mm dia.
Maximum cable run:	200m (including detection cable)
Weight:	520g max.
Controller:	WD-AMX module (see above)

Part code	Description
WD-CS-2M	Water Cable Sensor, 2m cable, 3m leader
WD-CS-5M	Water Cable Sensor, 5m cable, 3m leader
WD-CS-10M	Water Cable Sensor, 10m cable, 3m leader
WD-CS-15M	Water Cable Sensor, 15m cable, 3m leader
WD-CS-20M	Water Cable Sensor, 20m cable, 3m leader
WD-CS-25M	Water Cable Sensor, 25m cable, 3m leader
Accessories	
WD-FC	15mm, 2.60 Kvs, Valve, Linear

Data sheet – WD-CS.pdf   ·   Note: Other custom lengths are available.

Water Leak Detection Point Sensor

This sensor is used to detect water at a localised point and is used in conjunction with a WD-AMX controller module.

Features

- More than one can be connected to a WD-AMX
- Robust housing
- Slot lugs for easy installation

Housing:	Material	ABS
	Dimensions	58 x 58 x 31mm
Probes:	Material	Stainless steel
	Dimensions	13 x 3mm dia.
Cable length:	2m	
Weight:	100g	
Controller:	WD-AMX module	

Part code	Description
WD-PS	Point Water Sensor, 2m cable

Data sheet – WD-PS.pdf

Rain Detection Sensor

These sensors are used with a WD-AMX controller module to detect rain. The surface of the sensing head can be heated to avoid false detection alarms resulting from dew forming. The sensor can be swivelled on its mounting bracket and locked in place by a wing-nut.

Features

- Heater to avoid nuisance alarms
- Accurate switching

Heater power supply:	24Vac/dc	
Cable length:	2 or 5m	
Housing:	Material	ABS
	Dimensions	70 x 30 x 45mm
Protection:	IP65	
Weight:	125g	
Controller:	WD-AMX module	

Part code	Description
WD-RS	Rain Sensor (internal heater), 2m cable
WD-RS-5M	Rain Sensor (internal heater), 5m cable

Data sheet – WD-RS.pdf

Condensation Detector

This Condensation Detector is designed to meet the requirements for a low cost device capable of providing early warning of the onset of condensing conditions. Applications include chilled beam/ceiling systems where control safeguards are required to avoid "indoor rain". The sensor provides either a volt-free changeover contact or current output and is housed in a small enclosure.

Features

- VFC or current output
- Quick and simple to install

Output:	Current mode	(dry <3mA, wet >12 mA)
	VFC mode	SPDT contact, 240Vac @ 1A resistive
Supply voltage:	25Vdc ±5% or 24Vac ±10%	
Supply current:	12mA max.	
Response time:	<1 sec for RH >85%	
Cable:	Low smoke and fume	
Mounting plate:	1mm stainless steel	
Dimensions:	53 x 41 x 25mm	
Weight:	80g	

Part code	Description
WD-CBS	Condensation Detector, 1m lead
WD-CBS-5M	Condensation Detector, 5m lead

Data sheet – WD-CBS.pdf

Sontay is a market leading manufacturer and distributor of building measurement and control peripherals. The company provides a fast, professional and personal service, supporting businesses with reliable, durable and innovative products. This is backed by a dedicated Customer Services Team to assist with product advice and technical support. Please visit www.sontay.com

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