

Operation Manual of Water Leakage Detector

AD-AS-1BM

First of all, thank you very much for purchasing the Water Leakage Detector AD-AS-1BM.

When using, please make confirmation according to the following items before carrying out various operations.

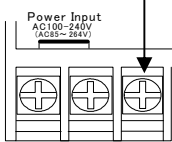
Using Method

■Connections with the power source, sensor and non-voltage contact output, and setting of the detection precision.

□ Power source

Please connect the AC100V~240V (50/60Hz) to the power source terminal wire securely according to the figure below.

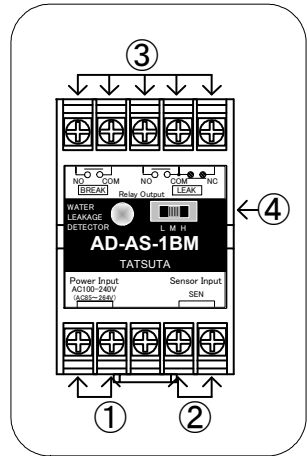
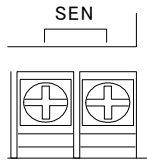
(Note) Do not connect the power source to the nearby terminal by mistake, otherwise, it may lead to device malfunction or fire.



□ Water leakage sensor

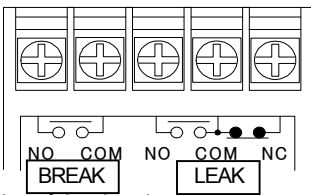
Please connect the water leakage sensor, which is installed with the break detection terminal (ZT-2) manufactured by our company, to the "SEN" terminal securely.

When the break detection terminal is not installed, it will stay at the break detected status.



□ Non-voltage contact output

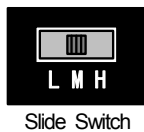
When water leakage or break is detected, alarm will be delivered from the corresponding non-voltage contacts respectively, please make connection with the relevant exterior systems etc.



NO: relay contact during detection Off
 NC: relay contact during detection On
 BREAK: Break 1a contact
 LEAK: Water leakage 1c contact

□ Setting of the detection precision

The detection precision can be set with respect to the installation environment, sensor length and the water quality detected accordingly. Use the slide switch to select positions L, M and H for setting. The default setting when dispatched from the factory is M.



H: high precision..... 14KΩ±30%
 M: standard precision..... 10KΩ±30% factory setting
 L: low precision..... 5KΩ±30%

■ Operation confirmation

The indicator LED will light up when the power source is switched on.

The water leakage status can be simulated via short circuit among the "SEN" terminals.

At this moment, the indicator LED will light up, indicating that the water leakage has been detected, meanwhile, the non-voltage contact output will be activated.

In addition, the leakage status detected by the sensor can be confirmed by dripping running water into the sensor.

Afterwards, the alarm can be reset by wiping the sensor with a dry cloth.

Installation Method and Handling Precautions

- Use the detector in an environment with a temperature range between 0 and 50°C (no icing) and a humidity range between 35 to 85% (no condensation).
- Do not use the detector in any location close to sources of vibration and harmful gas, and strong electromagnetic inductive power sources.
- Avoid using the socket lead as the power source as far as possible, and use fixed wire to connect power source.
- Select and use different fixators to fix the sensor according to the installation locations and environment.
- The structure of sensor is not easily affected by the electromagnetic induction, in case that you worry about electromagnetic interference, please consult us.
- Be sure to make operation confirmation after the installation is completed.
- When the housing and the case body is found dirty, please use soft cloths such as the gauze with small amount of neutral detergent diluted by water to wipe gently.

Specifications

Item	Specification		
Power source	AC100V~240V (for 50Hz/60Hz) Allowed scope AC85V~264V (for 50Hz/60Hz)		
Sensor electrode voltage	AC5.3V (maximum)		
Water leakage detection level	Switchable 3 segments ±30% FOR L: 5KΩ, M: 10KΩ and H: 14KΩ respectively.		
Break detection level	30KΩ (for L, M and H)		
Power consumption	3VA or less		
Indicator LED	Dual purpose for power source/water leakage and break alarm (lighting up once when water leakage happens and lighting up twice when break takes place)		
Non-voltage contact	1 group for water leakage 1c and break 1a respectively		
	Rated load	Resistive load	Inductive load
		AC 250V 6.0A	AC 250V 3.0A
		DC 24V 6.0A	DC 24V 2.0A

For Safety Use!



Caution

- To avoid the occurrence of malfunction!
- * Do not touch this detector with wet hands
- * Do not insert foreign matters into the detector from the gaps
- * When carrying out maintenance and periodic inspection to the detector, follow the instructions of the person in charge of operation or the operation manual.

Caution labels

Caution label

Erroneous operation of this water leakage detector not complying with the warning labels or the following warnings may not only lead to possible fatality or serious injury, but also fire, electric shock or detector failure may occur.

Before using, please be sure to read the precautions and the operation manual carefully



Precautions

- Carry out installation or wiring following the method instructed in the operation manual.
- Conduct maintenance and periodic inspection following the method instructed in the operation manual.
- Confirm the rated voltage and supply voltage before installing the machine.
- Never soak it in water! Avoid installing the detector in any location subject to high temperature and high humidity.
- When assembling to the machine for use, don't install in any locations easily accessible to the general public.
- Avoid using the detector in any location subject to excessively dusty environment.
- Avoid using the detector in any location close to sources of vibration, organic gas or strong electromagnetic induction.
- When performing maintenance on this detector, don't use solvents such as alcohol, toluene and diluents, etc.
- Do not conduct disassembling or reconstruction to the detector.
- Do not use the sensor as electric wire!
- Please contact us in case of any failure.

Customer Consultation

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