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**Specification Document** 

Point Sensor AD-PA-R

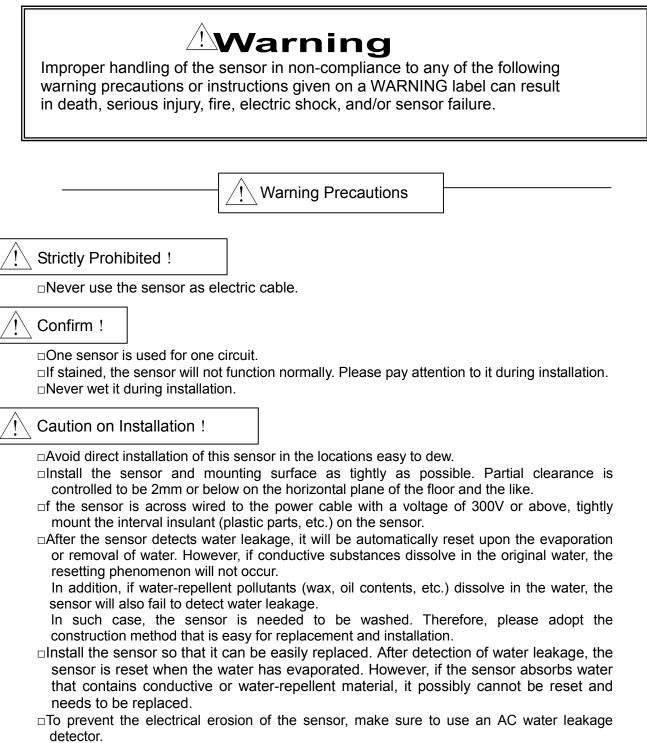
Date : ( )

<Manufacturer >

System Equipment Division Electronic Materials & System Equipment Group TATSUTA Electric Wire & Cable Co., Ltd.

System Equipment Division		
Approved by:	Checked by:	Prepared by:

## <<<Important safety instructions>>>



□Note: If the sensor sticks to the tax and other substances, the water is flicked and always fails to be detected.

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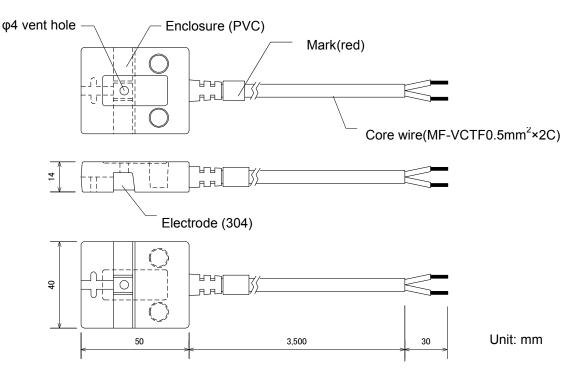
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#### 1. Scope

The specification document is applicable to the point water leakage sensor for rapid detection (AD-PA-R sensor)

#### 2. Construction

Fig. 1 shows the construction of the AD-PA-R sensor.
Electrode: SUS304 (1mm thick)
Enclosure: Soft PVC resin mold
Resistance: When molded, the 1/4W carbon resistance (20kΩ)is placed between electrodes.



#### Fig. 1: Schematic Diagram of the AD-PA-R Sensor

#### 3. Specifications

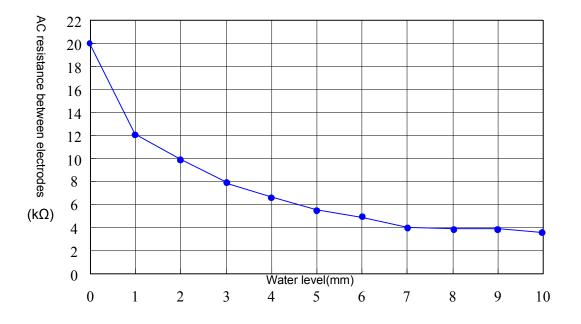
Table 1 shows the specifications of AD-PA-R sensor.

Item	Iable 1. Specifications       Specifications	
Electrode construction	Material: SUS304 (1mm thick)	
Resistance between electrodes (AC)	1MΩ min.	
Detection characteristic	The resistance between electrodes is below 15 k $\Omega$ when the water level is above 10mm. (The sensor is laid inside the water tank, to which 1mm unit water, i.e. local tap water, is added)	
Humidity resistance	In the high humid condition, the resistance between electrodes is $20k\Omega$ or above provided that there is no moisture condensation.	
Resetting characteristic	After water leakage detection, the sensor is instantly reset if the moisture is dried. However, if there are conductive and water-repellent pollutants in the penetrating water, wash the electrode first so that it can be reused.	
Heat resistance	60℃ max. for continuous operation	
Weight	Approx. 300g	

#### 4. Sensitivity Characteristic

Fig. 2 and Fig. 3 respectively show the sensitivity characteristic and humidity characteristic.

4-1 Sensitivity Characteristic (Reference Value)



4-2 Humidity Characteristic (Reference Value)

