

## Specification - 892 AWD

### Addressable Water Detector

#### Introduction

The 892AWD is an advanced, high reliability addressable water detector to detect water leakage in enclosed spaces and in other locations where flooding may occur such as cable chambers.

#### Features

- Fully encapsulated circuit, ultra compact
- Electronic address setting using a portable tester
- Built-in over voltage protection
- Reusable and reliable water leakage sensor cable
- Unique write protect mechanism
- Can be intermixed with other Monitronix addressable products on the same report pair

#### Description

The 892AWD is an advanced addressable water detector using an ultra low power embedded micro-controller. It is designed to detect water leakage in rooms and in other places where water leakage occurs. Electronic calibration and address setting permit the device to be encapsulated for high reliability. Ultra-low quiescent power consumption (50uA typical) allows this detector to operate at distances of up to 100 Km (depending on pair gauge and number of installed devices on the pair). A unique write protect mechanism ensures that the address and calibration can never be altered accidentally. Also, 892AWD can be intermixed with other Monitronix addressable sensors on the same report pair.



#### Technical Characteristics

##### Pair Requirements

Pair RC (loop resistance x capacitance)	60 milliseconds max
Pair loop resistance	14000 ohms max
Pair insulation (leg to leg and leg to earth)	10 Megohms minimum

##### Device parameters

Water Leakage Output	Binary Output
Surge Protection	Ultra-fast Solid state (Tranzorb)
Device Size	26 x 12 x 50 mm
Sensor Cable Length	Customized
Protocol	3 bp/s PWM addressing, 20-40 Hz current ripple response
Power feed	50 VDC balanced (system supplied)
Current draw	<60 uA (quiescent) 1.2 mA (active)

##### Environmental

Temperature - continuous operation	-20° to +60° C
Temperature transportation and storage	-40° to +70° C
Relative humidity	0 to 95% non-condensing

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