



**Integrated Monitoring
Solutions for Today's
Technology Facilities**

WD1-D/WD1-DS

Dual Relay Contact Point Leak Detector

FEATURES

- Adjustable Probe Height
- Wide Range of Operating Voltages
- Form "C" Relay Output for Alarms
(1Amp/120Vac Rated)
- Gold Sensing Probes
- Red LED indicator light
- Encapsulated Electronics
- Failsafe Circuitry (WD1-S Only)
- Self Contained System
(No special monitor panel required)
- Design Flexibility
- Simple Installation



GENERAL

The DiT, Inc. WD1-D and WD1-DS are Water Point Detectors, featuring gold-plated probes and microchip technology for the highest level of water detection confidence. All models can be operated from 12-25 Volts AC or DC. Alarm signaling is provided with two form "C" relay contacts. Connect the WD1-D or WD1-DS to a DiT, Inc. MPR, GMP or similar monitoring system to complete the monitoring package. A height adjustable, epoxy painted steel enclosure is standard.



The WD1-D models change the relay contacts state, and lights the red LED on the cover when water is present at the sensing probes. The WD1-D model provide two sets of non-powered alarm relay contacts. The WD1-DS models include fail-safe circuitry to signal an alarm condition for an internal malfunction or loss of power to the sensor. The WD1-DS models incorporate a reverse acting set of relay contacts that are closed in a normal condition.

OPERATION

The WD1-D or WD1-DS can be used with any "contact-closure" monitoring panel. The "dry" contact points may be wired normally open or normally closed, allowing wiring flexibility to handle most installations.

Relay contacts on the WD1-D sensors, once powered, remain in the same state until water is applied to the sensing probes. When water is present, the relay contacts make.

On WD1-DS sensors, the relay contacts are reverse acting and make as soon as power is applied.

When water is present at the sensing probes, the relay releases and returns to a non-powered state. During a powered steady state condition, the contacts will change states and signal an alarm condition if:

1. A leak is detected
2. An internal malfunction occurs
3. Power is lost to the sensor

MOUNTING

The units mount directly on the floor or sub-floor. Two 1/4" mounting holes are provided (one on each flange) for anchoring to the floor. Adjust the height of the sensing probes with the screws on the mounting legs.

WIRING

The unit requires 12-24 Volts DC or AC power. Shielded cable should be used for wiring to prevent electrical noise. Electrical knockouts (1/2") are provided for electrical connection.

WD1 Wire Connections

Red	Positive Power
White	Negative Power
Orange	Relay Common
Blue	N.C. Contact
Yellow	N.O. Contact
Brown	Relay Common
Gray	Normally Open
Green	Normally Closed

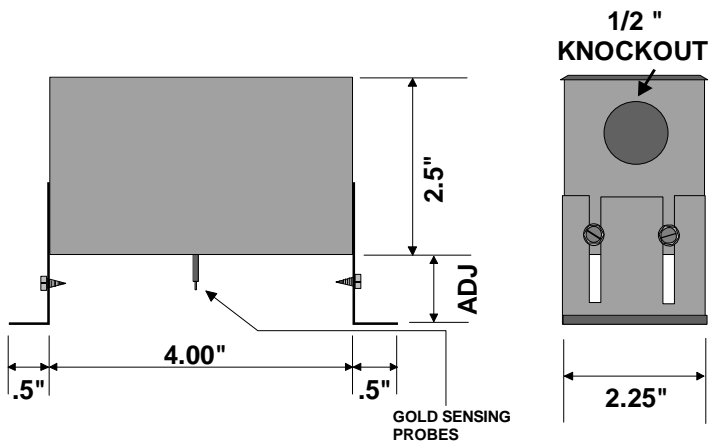
Relay contacts are reverse acting on WD1-DS models.

For detailed mounting and wiring information, see the DiT, Inc. Water Detection Installation Manual.

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Dimensions

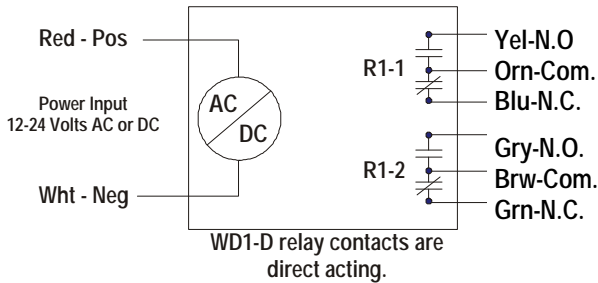


SPECIFICATIONS

Model Number WD1-D
Power 12-24 Volts AC or DC
 50MA
Alarm Output 2- Form "C" Relay Contacts
Indicator Light Red LED
Contacts 2- (1Amp/120Vac Rated)
Environmental 32-125F/0-95%Rh
Size 5"L x 5"H x 3.25"D
Weight 1.4 lbs.

Model Number WD1-DS
Power 12-24 Volts AC or DC
 50MA
Alarm Output 2- Form "C" Relay
Indicator Light Red LED
Contacts 2- (1Amp/120Vac Rated)
 (Reverse Acting)
Environmental 32-125F/0-95%Rh
Size 5"L x 5"H x 3.25"D
Weight 1.4 lbs.

WD1-D Internal Connections



WD1-D(S) Module Wire Connections

Red	Positive Power
White	Negative Power
Orange	Relay Common
Yellow	Normally Open
Blue	Normally Closed
Brown	Relay Common
Gray	Normally Open
Green	Normally Closed

Use 18-22 gauge stranded wire. For detailed mounting and wiring instructions, see DiT, Inc. Water Detection Installation Manual.

WD1-DS Internal Connections

