

Integrated Monitoring Solutions for Today's Incorporated Technology Facilities

WD1/WD1-S **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



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GENERAL

The DIT WD1 and WD1-S 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 form "C" relay contacts. Connect the WD1 or WD1-S to a Darwell MPR, GMP or similar monitoring system to complete the monitoring package. A height adjustable, epoxy painted steel enclosure is standard.

The WD1 models change the relay contact state, and lights the red LED on the cover when water is present at the sensing probes. The WD1 model provide a single sets of contacts. The WD1-S models include fail-safe circuitry to signal an alarm condition for an internal mal-



function or loss of power to the sensor. The WD1-S models incorporate a reverse acting set of relay contacts that are closed in a normal condition.

OPERATION

The WD1 or WD1-S 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 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-S 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:

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

MOUNTING

The units mount directly on the floor or sub-floor. Two ¼" 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.

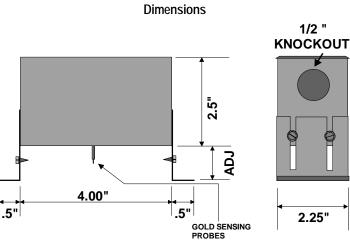
WIRING

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
Relay contacts are reverse acting on D1-S models.	

For detailed mounting and wiring information, see the Darwell Technology Water Detection Installation Manual.



WD1-(S) Module Wire Connections

Positive Power

Negative Power

Relay Common

Normally Open

Normally Closed

Use 18-22 gauge stranded wire. For detailed mounting and wiring

WD1-S to AS1500 Wiring Diagram

instructions, see Darwell Technology's Water Detection Installa-

Red

White

Orange

Yellow

tion Manual.

Blue

Model Number Power

> Alarm Output Indicator Light Contacts

SPECIFICATIONS

Model Number

Alarm Output

Indicator Light

Environmental

Contacts

Size Weight

Power

Environmental Size Weight

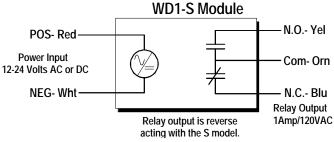
WD1

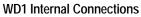
12-24 Volts AC or DC 50MA Form "C" Relay Contacts Red LED (1Amp/120Vac Rated) 32-125F/0-95%Rh 5"L x 5"H x 3.25"D 1.4 lbs.

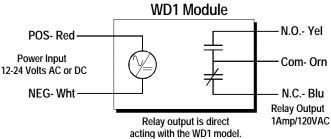
WD1-S

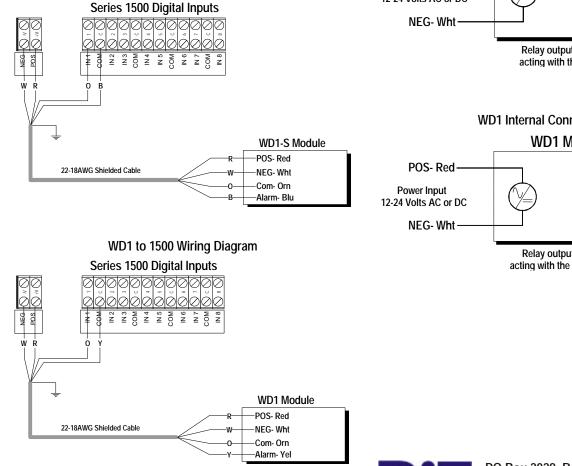
12-24 Volts AC or DC 50MA Form "C" Relay Red LED (1Amp/120Vac Rated) (Reverse Acting) 32-125F/0-95%Rh 5"L x 5"H x 3.25"D 1.4 lbs.

WD1-S Internal Connections











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