

Master Control Technologies

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

FEATURES

Adjustable Probe Height Wide
Range of Operating Voltages Form
"C" Relay Output for Alarms
(1Amp/120Vac Rated)

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

330 US HWY 69

Point, TX 75472

Phone: 214-607-9991

mastercontroltechnologies.com



WD1-D/WD1-DS

Dual Relay Contact Point Leak Detector



GENERAL

The MCT WD1-D and WD1-DS are Water Point Detectors, featuring probes and microchip technology for the highest level of water detection confidence. All models can be operated from 12-24 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 steel enclosure is standard.

The WD1-D models change the relay contacts state, and lights the red LED on the cover when water is pre-sent 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, Primary or Secondary Grounding. Shielded cable should be used for wiring to prevent electrical noise. Electrical knockouts (1/2") are provided for electrical connection. Circuitry is moisture-protected with a 2-part epoxy resin compound.

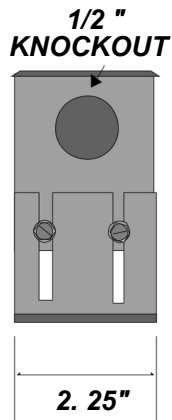
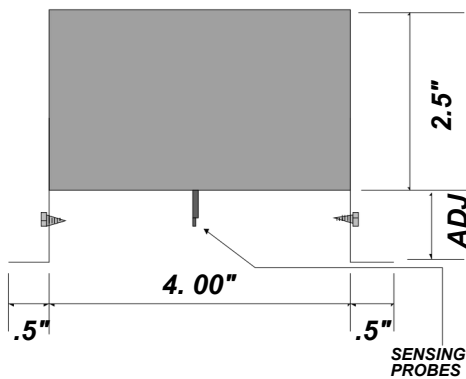
WD1 Wire Connections

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

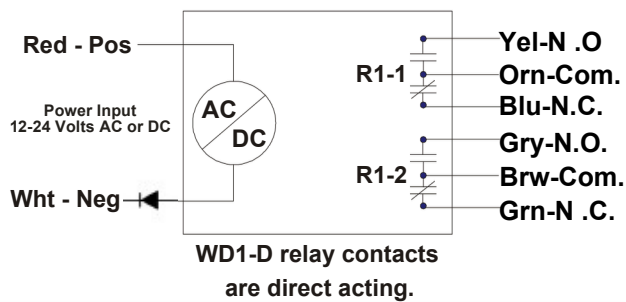
Relay contacts are reverse acting on WD1-DS models.

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

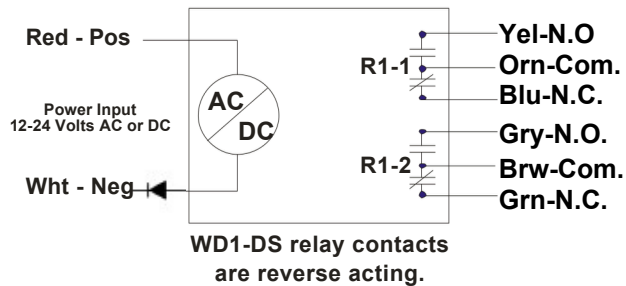
Dimensions



WD1-D Internal Connections



WD1-DS Internal Connections



SPECIFICATIONS:

Model Number

Power
Alarm Output
Indicator Light
Contacts
Environmental
Size
Weight

WD1-D

12-24 Volts AC or DC 50MA
2—Form "C" Relay Contacts
Red LED
2—(1Amp/120Vac Rated)
32-125F/0-95%Rh
5"L x 5"H x 3.25"D
1.4 lbs.

Model Number

Power
Alarm Output
Indicator Light
Contacts
Environmental
Size
Weight

WD1-DS

12-24 Volts AC or DC
50MA
2—Form "C" Relay
Red LED
2—(1Amp/120Vac Rated)
(Reverse Acting)
32-125F/0-95%Rh 5"L x 5"H x 3.25"D
1.4 lbs.

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 MCT Water Detection Installation Manual.



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