



INSTALLATION INSTRUCTIONS

#470-6
#470-12
#470-PB
Water Sensor

GENERAL INFORMATION

The No. 470 Water Sensor is completely electronic and its design allows water to be detected with low voltage and low current. Electronic module is designed to be located in and powered by a like voltage alarm control and can monitor up to 2 sensor probes. The probes are normally placed by sump pumps, washing machines, kitchens, computer rooms, etc. where flooding is a possibility and early warning is desirable to prevent damage.

WIRE:

The control module can be located up to 20 feet when used with 22AWG twisted pair wire or 100 feet using 20AWG twisted wire from the detection probe(s).

PROBE INSTALLATION:

Mount probe No. 470-PB to water pipe in the sump pump pit or any location where detection of water is desired using the two mounting holes provided. A tie strap can also be used for ease in attaching the probe to pipes. Adjust the probe to the point of desired detection. The detector will activate when both pins contact water.

TERMINAL CONNECTION:

Connect the filtered DC power to terminals 5(+) and 6(-). Be sure to observe polarity. Connect one terminal of the probe to terminal 6(-) of the module and the other terminal to terminal 4 of the module. Terminals 1(N.C.), 2(C), and terminal 3(N.O.) will provide dry contact only (no voltage output). After installing the probe, coat both its screw terminals with a silicone sealer.

SENSITIVITY :

The No. 470 is provided with two sensitivity settings. After installation, check the sensor by placing the probe in the water to be detected. If the unit activates when the terminals are shorted at the module and not at the probe, recheck your wiring and connections. If the wiring is correct, then you must increase the detectors sensitivity. Remove the module lid by unscrewing the four small screws. Cut the loop wire protruding from the PC board and then spread apart. The high sensitivity mode will allow detection of moisture between two probe pins. Repeat the above testing procedure.

TESTING:

The No. 470 Water Sensor should be periodically tested to ensure proper operation (suggested monthly). After 200 hours of continuous activation (detection of water) the probe should be cleaned. Wipe or scrape off any accumulated substances to expose the metal pins.

THE SECOND PROBE:

If desired, you may connect a second detection probe to the module to protect another area. The second probe is connected to the same terminals (6) and (4). Note: 2 probes maximum per unit.

SPECIFICATIONS:

Physical

Module size: 2 1/2" inches (63.5 mm) deep by 3 inches (76.2mm) wide by 4 inches (101.6mm) long.

Probe size: 1/2" inch (12.7 mm) deep by 1/2" inch (12.7mm) long by 2 inches (50.8mm) wide.

Electrical	470-6	470-12
Voltage	6VDC	12VDC
Probe Current (activated)	.3mils	1.0mils respectively
Total Current Draw on alarm	52 mils	40 mils respectively
Relay rating	3 amps	5 amps respectively
Standby Current	0	0

TO THE INSTALLER

Regular maintenance by the installer and frequent testing by the user is vital for continuous satisfactory operation of any alarm system. The installer should assume the responsibility of developing and offering a regular maintenance program to the user as well as acquainting the user with a proper operation and limitation of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing to ensure the systems proper operation at all times.

ALARM DEVICE MANUFACTURING PROGRAM

Division of Pittway Corporation
165 Eileen Way • Syosset, NY 11791

INSTALLATION:

The control module can be located up to 20 feet from the detection probe(s) when 22AWG twisted pair wire is used. The distance can be increased to 100 feet when 20AWG twisted pair wire is used.

The sensor should be mounted so that the probe pins are at the point of desired contact with water using the two mounting holes provided. A tie strap can also be used for ease in attaching the probe to a pipe. It's that simple.

SENSITIVITY:

The No. 470 is provided with two sensitivity settings for greater flexibility,

All units are set at the least sensitive mode. An actual bridge of water is required to activate the detector at this sensitivity setting. This eliminates falsing due to condensation.

If higher sensitivity is desired, this can be accomplished by removing the cover and clipping the looped resistor on the PC board. Once the looped end is clipped, the detector becomes highly sensitive and will activate with moisture.

SPECIFICATIONS

Physical

Module size: 2 1/2" (63.5mm) deep by 3" (76.2mm) wide by 4" (101.6mm) long

Probe size: 1/2" (12.7mm) deep by 1 1/4" (31.75mm) long by 2" (50mm) wide

Electrical	470-6	470-12
Voltage	6VDC	12VDC
Probe Current (activated)	6 mils	12 mils
Total Current Draw On Alarm	18 mils	40 mils
Alarm Output:	SPDT Relay Contacts	SPDT Relay Contacts
Relay Rating	2 amps	5 amps
Standby Current	0	

HOW TO ORDER

No. 470-6	Water Sensor, 6VDC (1 probe included)
No. 470-12	Water Sensor, 12VDC (1 probe included)
NO. 470PB	Probe for No. 470 Water Sensor



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