

ISIMET

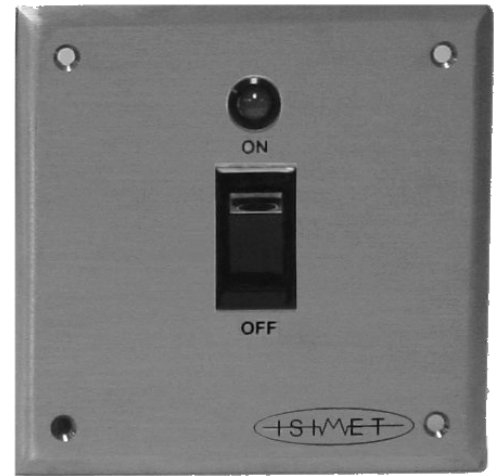
ADD-ON Companion Component

Fan Circuit

Model IAO-Fan Part # 3101

Installation Instructions

This ADD-ON Component enables the upgrade of an existing Utility Controller where the user desires the optional operation of the purge fan to be added to an existing system.



CAUTION!

Turn the unit OFF prior to installing this Module.

Parts provided with this assembly kit:

Mounting Track

ADD-ON Module PC Board with wire lead

Wall box with hardware

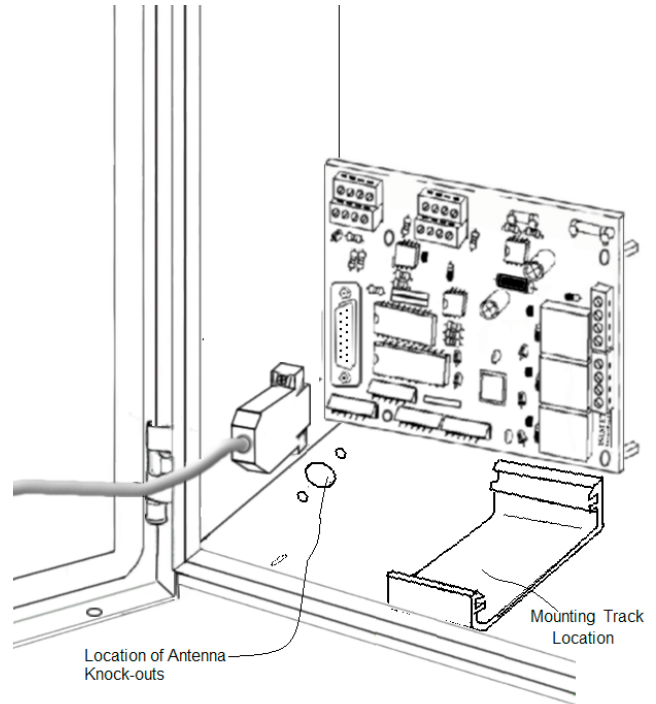
Stainless Steel Wall Panel with Hardware, Switch, LED & Cable

Inter-connect cable (10 lf) with rubber grommet

* Optional interface 120 VAC Relay with Track

Installing the Module Track:

Attach the plastic track to the interior side of the enclosure as shown in the drawing. Make sure that the placement does not interfere with the door opening, knock-out holes for the optional RF antenna or other operation of the unit. Centering the track between the face and back of the unit with right side of the track aligning with the edge of the Controller's PC Board is recommended. Use the provided adhesive to track by applying a limited portion to the back of the track and then pressing the track against the base. Hold the track firmly until the adhesive sets. Do not insert the Module until the adhesive is completely dry.

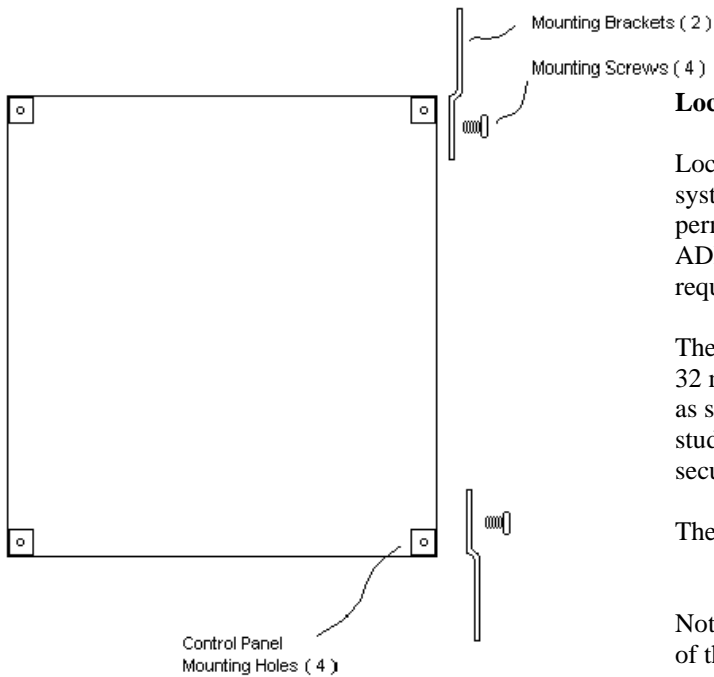


* An optional 24 vac coil – 120 vac relay is provided with the unit when specified at the time of ordering. This relay permits the installer to utilize the provided wall box as a junction box to make live voltage connections to the controlled device. If no relay is provided, one may be purchased by contacting an *ISIMET* Sales Representative. Installation instructions are provided with that component.

Important!

All local electrical codes must be followed when connecting the conduit to the service panel and making wiring connections.

Do not install wiring or cable for integrated systems, remote panic assemblies or other interface wiring within conduit for either 24-vac control or 120-vac line voltage. Each wiring system should be housed in independent conduit and not bundled with wiring for other systems.



Locating and Installing the Wall Box.

Locate the box so that it is readily accessible to the operator of the system and at a maximum of eight-feet from the Utility Controller, permitting the provided cable to connect the box component to the ADD-ON module. The mounting of the box should conform to ADA requirements.

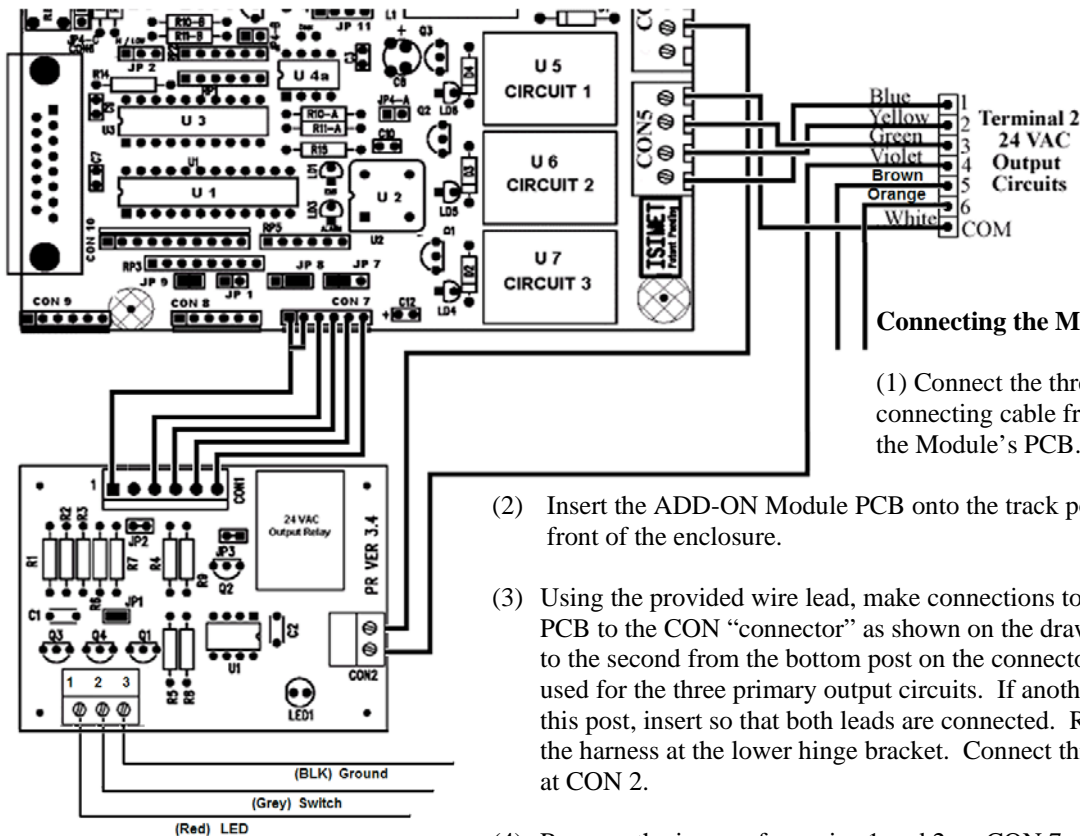
The wall box is provided with two (2) mounting flanges and four (4) 8-32 mounting screws. Attach the flanges to the two corners of the box as shown. Then using field provided screws, attach the box to a wall stud or other structural member. We recommend that the box be securely fastened to a wall member.

The face of the box should be flush with the finished wall surface.

Note: The wall box may be positioned so that flanges are left or right of the box.

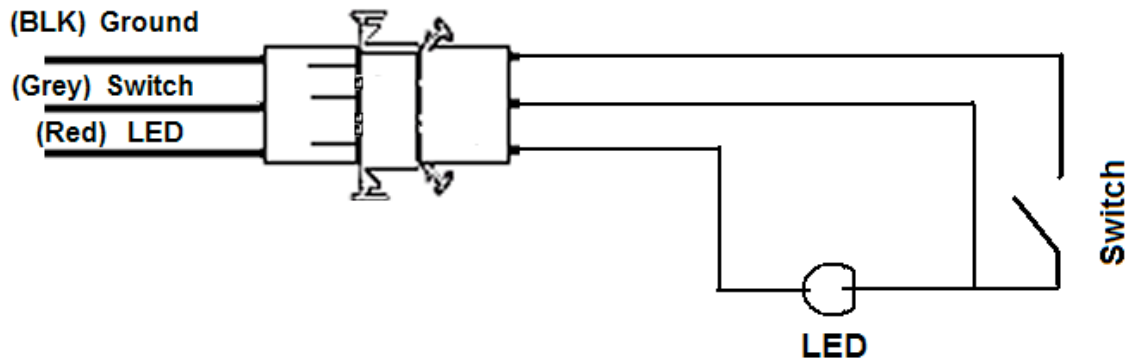
Installing the Cable

The cable should feed into the wall from the wall box to the Utility controller. Remove one 3/8" knock-out from the side of the box. Insert the provided grommet. Knock-outs are located on the Controller's side to accept this cable. Thread the cable through the box leaving the end with the connector within the box.



Connecting the Module to the Controller:

- (1) Connect the three wire leads from the inter-connecting cable from the ADD-ON wall box to the Module's PCB.
- (2) Insert the ADD-ON Module PCB onto the track positioning CON 2 to the front of the enclosure.
- (3) Using the provided wire lead, make connections to the CON 2 on the Module's PCB to the CON "connector" as shown on the drawing. The wire should connect to the second from the bottom post on the connector directly above the CON 5 used for the three primary output circuits. If another wire is already connected to this post, insert so that both leads are connected. Remove the Violet wire from the harness at the lower hinge bracket. Connect this wire to the second terminal at CON 2.
- (4) Remove the jumper from pins 1 and 2 on CON 7 of the primary PCB. Insert the connector from the Module's PCB.



Connecting and Mounting the Wall Panel:

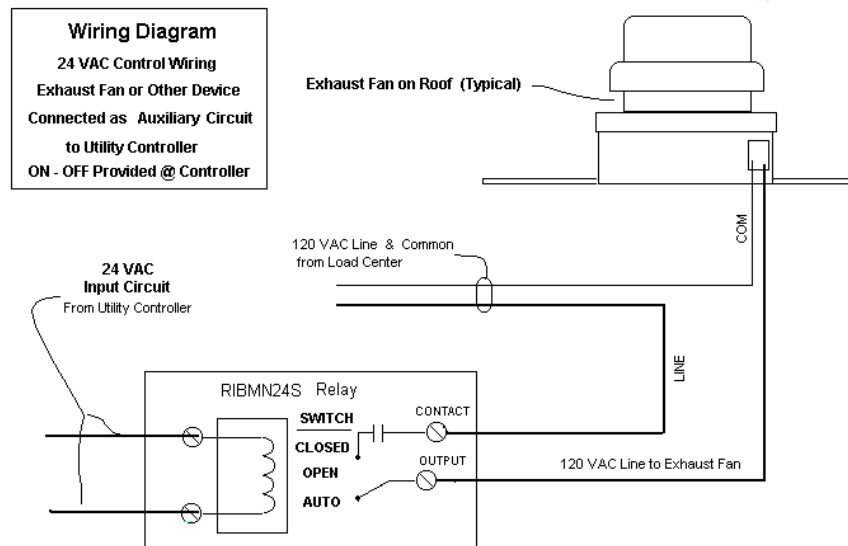
Holding the wall panel in front of the wall box, connect the three pin receptacle from the inter-connect cable to the Polarized panel plug.

Position the panel in front of the four corresponding holes in the face of the wall box. Using the four provided screws and hex wrench, attach the panel to the box. The placement of the panel should be such that the LED is at the top. The panel should fit snugly against the wall surface

Wiring the Purge Fan:

24 vac output control voltage is available at posts 4 and COM on the Utility Controller’s control panel, terminal 2. This output control signal is intended to provide 24 vac control voltage to an interface relay located remotely from the Utility Controller. Refer to the drawing below for recommended wiring of this fan.

If an interface is provided with this Module, then wire the line voltage from the load center through the output circuits as shown. The relay should mount in the ADD-ON Wall Box. Use one of the ½” IPS knock-outs for conduit connections.



CAUTION! All local electrical codes should be followed when wiring the unit.

Test the Unit:

Turn ON the Utility Controller. Verify that the “ems” LED on the Controller’s PCB is illuminated. Key the Controller. Turn ON at the panel’s switch. The fan should energize.

If this test fails: (1) test for an output signal at posts 4 and COM on the Controller’s terminal 2. (2) Verify that the interface relay is energized. (3) Verify that there is 120 vac current to the relay and exhaust fan. (4) Contact an *ISIMET* customer service technician.

Note: The Jumper at JP 1 on the module should be in place for “Purge Fan - ON” for after hours operation.

Operate the Unit:

The Fan Module ADD-ON permits an exhaust fan to be operated within the Utility Control System. The fan requires a “First Keying” or “Panic” to become active during the course of the classroom day. Thereafter the switch provides ON and OFF operation of the fan.

Upon striking the Panic Button on the Utility Controller’s door panel or any other Remote Panic Assembly, the fan will automatically activate. Reset of the service will deactivate the fan unless the switch is in the ON position. When the system is integrated with the facility’s energy management system, the fan will deactivate during non-use periods. However, if the Jumper at JP 1 on the module is in place then “Purge Fan - ON” with Panic will occur for after hours operation.

A Green LED on the panel indicates that the fan is “ON”.

Warranty: - Accessory Components for ISIMET Control System

ISIMET will repair or replace any defective parts or workmanship of this product for a period of one year from date of installation. Damage caused by incorrect installation or improper usage is not warranted. Failure to follow recommended installation, operation, and/or maintenance procedures listed in this manual may void product warranty. Recovery rights shall be limited to the total sum of the amounts paid for the product by the purchaser.

Limits of Liability:

ISIMET's liability shall be limited to costs of repair or replacement parts. This unit is not intended for usage other than those expressly described in this manual. *ISIMET* shall not be liable for damage or injury caused by the improper use of the product.

ISIMET shall not warrant against or assume liability for failure of operation or lack of notification to secondary integrated monitoring systems. The system should be thoroughly tested and adjustments made at time of initial operation. Periodic testing should be conducted by the user to assure that all components function and operate according to specifications.

Care should be taken in the installation of this product. *ISIMET* shall not be liable for damage or injury caused from the improper installation of the product.

Warranty is Subject to Compliance with Specific Installation Requirements.