

Over Height Vehicle Detection System

Installation, Operation and Maintenance Manual



Model ME-IR/1000

Metro Economy

JUNE 2024



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FOREWORD

Every effort has been made to ensure the accuracy of this manual. However, TRIGG INDUSTRIES, LLC WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR OTHER DIRECT OR INDIRECT EXPENSES, DAMAGES OR OTHER LOSS ARISING FROM THE USE OF THIS MANUAL.

WARRANTY

Equipment manufactured by Trigg Industries, LLC is guaranteed to the original purchaser to be free from defects in material and/or workmanship for one year from the date of shipment when the equipment is used in accordance with operating instructions.

THE ABOVE WARRANTY IS IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTY, CONDITION OR GUARANTEE BY TRIGG INDUSTRIES, LLC INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, OF THE EQUIPMENT LISTED HEREIN. SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

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SYSTEM OVERVIEW

The Model ME-IR/1000 is designed for off highway, lower speed over height object detection applications with medium range (up to 75 feet maximum between source and detector) but Trigg Industries (TI) suggests that to ensure reliable operation, the distance between Source and Detector be limited to 50 feet.

This system is designed to detect an object that breaks a pulsed beam of Infrared energy which energizes a relay in the Detector Eye. In turn, a Timer Relay (TR-1) inside the Controller is energized. The Timer Relay energizes the Alarm Relays (RL-1 and RL-2) which together have four sets of double throw contacts:

ALARM RELAY CONTACTS	FUNCTION
SET 1	120VAC TO FLASHER RELAY (FR-1)
SET 2	120VAC TO TERMINAL STRIP 1 (TS-1)
SET 3	FORM C RELAY TO TERMINAL STRIP 1 (TS-1)
SET 4	I/O MODULE (IO1)

Flasher Relay (FR-1) provides alternating 120VAC output for flashing signals. Flash rate is factory set to 60 flashes per minute (FPM) with a duty cycle of 50%.

Terminal Strip (TS-1) in the Controller provides wiring termination and overcurrent protection for device input and output.

CONTROLLER OUTPUT	FUNCTION DURING OVDS ALARM	TYPICAL OPTIONAL EQUIPMENT
TS-1 #1-6	ALTERNATING FLASHER 120VAC OUTPUT	LED TRAFFIC SIGNALS
TS-1 #7-9	STEADY 120VAC OUTPUT	SIREN, STROBE, BELL, BLANK OUT SIGN (BOS)
TS-1 #10-13	FORM C RELAY ACTIVATES (C & NO CLOSED, C & NC OPENED)	VARIABLE MESSAGE SIGN (VMS), PROGRAMMABLE LOGIC CONTROLLER (PLC), RADIO FREQUENCY LINK (RFL)

Figure 1, WIRING DIAGRAM, shows in simplified form the operation of the system. In normal operation, the Source eye generates a pulsed Infrared beam that is detected by the Detector eye and since the Detector is utilized in the "dark operate" mode, the alarm relay is not energized. Once the beam is broken, the system operates as described above.

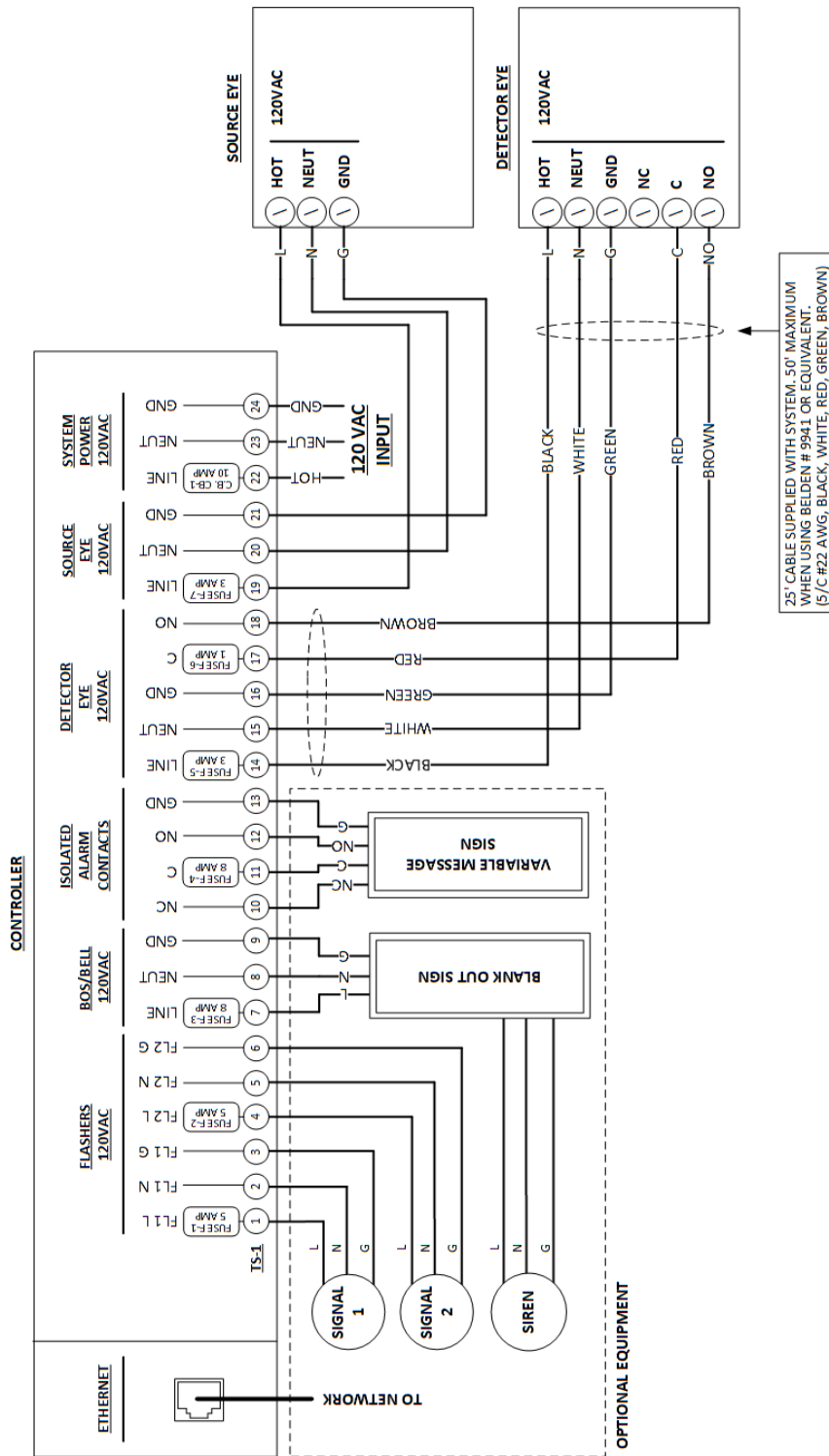


Figure 1 - Wiring Diagram

RECOMMENDED WIRING

Table 1 - Recommended Wiring - Source Eye

EXTERNAL WIRE	TERMINAL LABEL	FUNCTION	INTERNAL WIRE
#12-16 BLACK	HOT	120VAC HOT	BROWN
#12-16 WHITE	NEUT	120VAC NEUT	BLUE
#12-16 GREEN	GND	120VAC GND	GREEN

Installer to provide wiring between the Source Eye and the Controller. If wire path to the controller is not available, the Source Eye may be connected to an always-on 120VAC power source using supplemental overcurrent protection.

Table 2 - Recommended Wiring - Detector Eye

EXTERNAL WIRE	TERMINAL LABEL	FUNCTION	INTERNAL WIRE
#12-22 BLACK	HOT	120VAC HOT	BROWN
#12-22 WHITE	NEUT	120VAC NEUT	BLUE
#12-22 GREEN	GND	120VAC GND	GREEN
-	NC	NC RELAY CONTACT (NOT USED)	WHITE
#12-22 RED	C	C RELAY CONTACT	YELLOW
#12-22 BROWN	NO	NO RELAY CONTACT	BLACK

One 25-foot multi-conductor cable is supplied with the system and is intended for installation between the Detector Eye and the Controller. Maximum cabling distance between the Detector Eye and the Controller is 50 feet when using Belden # 9941 or equivalent 5/C #22 AWG cable.

Table 3 - Recommended Wiring - Controller

TS1	FUNCTION	
1	FLASH #1 - 120VAC LINE	FLASHERS (120VAC)
2	FLASH #1 - 120VAC NEUT	
3	FLASH #1 - 120VAC GND	
4	FLASH #2 - 120VAC LINE	
5	FLASH #2 - 120VAC NEUT	
6	FLASH #2 - 120VAC GND	
7	120VAC LINE	BOS/BELL (120VAC)
8	120VAC NEUT	
9	120VAC GND	
10	NC CONTACT	ISO ALARM CONTACTS
11	C CONTACT	
12	NO CONTACT	
13	GND	
14	120VAC LINE	DETECTOR EYE (120VAC)
15	120VAC NEUT	
16	120VAC GND	
17	C CONTACT	
18	NO CONTACT	
19	120VAC LINE	SOURCE EYE (120VAC)
20	120VAC NEUT	
21	120VAC GND	
22	120VAC LINE	SYSTEM POWER (120VAC)
23	120VAC NEUT	
24	120VAC GND	

Table 4 - Fuse Ratings

FUSE	RATING	TYPE	DEVICES	REPLACEMENT PN
F-1	5 AMPS 250VAC	3AG FAST-ACTING	FLASHER OUTPUT #1	LITTELFUSE # 0312005.HXP
F-2	5 AMPS 250VAC	3AG FAST-ACTING	FLASHER OUTPUT #2	LITTELFUSE # 0312005.HXP
F-3	8 AMPS 250VAC	3AG FAST-ACTING	BOS/BELL OUTPUT	LITTELFUSE # 0312008.HXP
F-4	8 AMPS 250VAC	3AG FAST-ACTING	ISOLATED ALARM CONTACTS	LITTELFUSE # 0312008.HXP
F-5	3 AMPS 250VAC	3AG FAST-ACTING	DETECTOR EYE POWER	LITTELFUSE # 0312003.HXP
F-6	1 AMPS 250VAC	3AG FAST-ACTING	DETECTOR CONTROL SIGNAL	LITTELFUSE # 0312001.HXP
F-7	3 AMPS 250VAC	3AG FAST-ACTING	SOURCE EYE POWER	LITTELFUSE # 0312003.HXP

Fuse holder is integrated into Terminal Strip 1 (TS-1) located inside the controller. Turn off power to the system and then lift on the respective handle to inspect and replace fuse.



For continued protection against risk of fire, replace only with a fuse of the same type and having the same electrical rating.

INSTALLATION

MECHANICAL

1. Ensure the poles or mounting assemblies are near vertical.
2. Place the Source Eye Assembly and the Detector Eye Assembly brackets (distinguished by labels located on each assembly) on their respective mounting fixtures such that the center of each eye is 1/4 inch below the desired detection height. Detection height will be confirmed following alignment.
3. Slightly loosen the bolts of the two-axis mount securing the eye to the bracket.
4. "Sight" along the top of the Source and Detector eyes to ensure that each eye is "looking" at the opposite assembly. Adjust as necessary in the horizontal and vertical planes. Final optical alignment will be accomplished later.
5. Mount the Controller within 25 feet of the Detector Assembly so that the cable from the Detector Assembly can reach the housing.

ELECTRICAL



CAUTION

Exercise caution when making connections to terminal strips with a common screwdriver. Blades more than $\frac{1}{4}$ inch width may damage the control panel terminal strips. Verify system power variation **before** connecting power. (230VAC and 24VDC dependent upon power variation)

1. Refer to Figure 1, Wiring Diagram for the following steps.
2. Make wiring connections to the Source Eye as indicated on Figure 1 and Table 1.
3. Make wiring connections to the Detector Eye as indicated on Figure 1 and Table 2.
4. Make wiring connections to the Controller as indicated on Figure 1 and Table 3.
5. Loosen, but do not remove, the four Phillips head screws securing the Detector eye hood and tilt the hood back so that the top of the Detector Eye can be observed.
6. At the Detector eye, ensure the Dark Operate/Light Operate switch is set to DO and the SENS control to MAX. Be gentle with the SENS control as damage to this control voids the warranty. These are the normal settings from Trigg Industries.
7. Turn on power source to the Controller (and Source Eye if fed separately).
8. Set Circuit Breaker (CB-1) in Controller to 'ON' position.
 - a. Green LED labeled 'SYSTEM POWER' in Controller should be on steady.
 - b. Green LED on top of the Detector Eye should be on steady.
 - d. Green LED on top of the Source Eye should be on steady

Amber LED on top of the Detector eye may also be on. Any alarm devices connected may activate on initial power up for the duration of the alarm time setting.

NOTE

If the 'coarse' alignment in Step 4 of the Mechanical installation was successfully accomplished, the Red LED on the top of the Detector eye should be flashing and the relay in the Controller should not be energized. Warning device wiring should not be connected until FINAL ALIGNMENT has been accomplished. The Amber LED on the top of the Detector eye is used to monitor the status of the solid-state output relay and may come on during the installation and alignment process. This LED should also come on during an alarm.

FINAL ALIGNMENT

NOTE: The following steps are best accomplished by two people.

1. Rotate the Detector Eye Assembly two-axis mount (left and right) in the horizontal plane to find the position where the Red LED on top of the Detector Eye blinks most rapidly. Secure in place.
2. Tilt the Detector Eye Assembly two-axis mount (up and down) in the vertical plane until the Red LED on top of the Detector Eye blinks most rapidly. Secure in place.
3. Repeat Steps 1 and 2 for the Source Eye Assembly while observing the Red LED on the top of the Detector eye.
4. When alignment is complete, the Red LED on top of the Detector Eye should be rapidly blinking at a rate faster than 8 flashes per second (approximately).

NOTE: It may be necessary to repeat Steps 1 through 3 if either the Source or Detector Assemblies required major adjustment from their original positions.

ALARM TIME ADJUSTMENT

Alarm on time is user configurable using the adjustments located on Timer (TR-1) as shown in Figure 2. Turn “Time Range Setting” dial to set ON time range (Refer to Figure 3). Turn “Adjustment within Range” dials to fine-tune ON time range. Full clockwise is the maximum ON time within the set time range. Full counterclockwise is minimum ON time within the set time range. The “Function Setting” dial should remain at factory configured “H” setting.

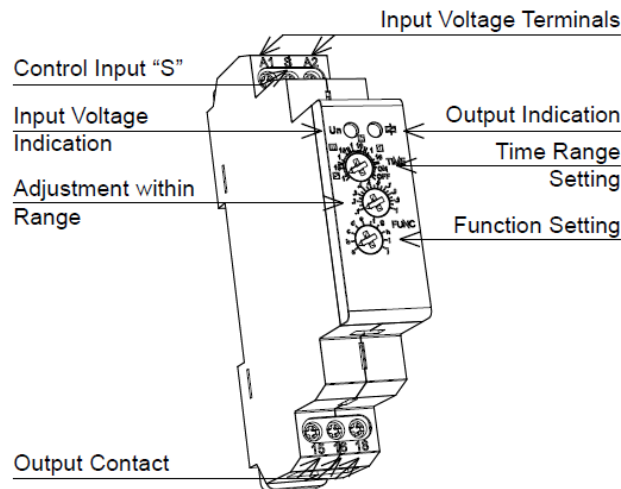


Figure 2 - Timer Diagram

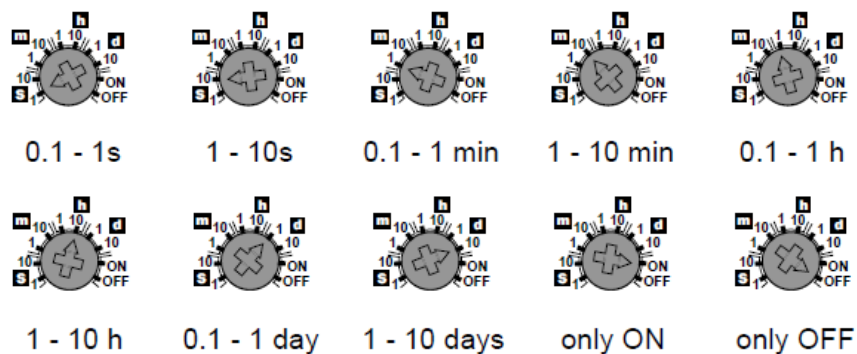


Figure 3 - Timer Settings

DETECTION HEIGHT TEST

1. Using a surveyor's rod or pole with the top end having a cross section of at least 2.5 inches and the rod/pole length the desired detection height, place the rod/pole on the roadway where the right side tires of a vehicle would run when passing through the beam. Move the rod/pole such that the beam should be interrupted (within the speed criteria of the system) and note that an alarm is issued.
2. Move the rod/pole to where the left side tires of a vehicle would run when passing through the beam. Move the rod/pole such that the beam should be interrupted (within the speed criteria of the system) and note that an alarm is issued. It may be necessary to adjust the height and/or slope of the eyes to match that of the roadway surface. If any height adjustment is necessary, ensure the final alignment procedures are again followed.
3. This tests the crown or slope of one lane. If more than one lane is being detected, check each lane per Steps 1 and 2. It may be necessary to adjust the height of either the source or detector eye to establish the "best fit" for the particular application. If any height adjustment is necessary, ensure the final alignment procedures are again followed.
4. Secure all hardware and latch the Controller.

SUGGESTION

Based on the environmental conditions at each location, it is suggested that both the Source and Detector eyes be cleaned with a soft brush to remove airborne contaminants on an "as required" basis. Cleaning the eyes may cause several false alarms, since the IR beam will be broken during this process. It is suggested that this process be undertaken during periods of no traffic.

I/O MODULE SETUP

The Model ME-IR/1000 is equipped with an I/O module which enables remote notifications and logging over wired Ethernet connection. The module ships partially configured. Additional features including the module's Network Settings can be configured as described in the SETUP PAGE section of this manual.

Factory Default Settings are shown in Table 5.

I/O Module Indicator LED functions are shown in Table 6.

Table 5 - Factory Default Settings

CONTROL PAGE WEB ADDRESS	http://192.168.1.2
CONTROL PASSWORD	(no password set)
SETUP PAGE WEB ADDRESS	http://192.168.1.2/setup.html
SETUP USERNAME	admin
SETUP PASSWORD	webrelay (all lower case)

Table 6 – I/O Module Indicator LEDs

INDICATOR LED	FUNCTION
Power	Illuminated green whenever the device is powered.
Ethernet - LINK	Illuminated green when the device is properly connected to an Ethernet network and is ready to communicate. Network communications will only occur if this LED is illuminated.
Ethernet - ACT	Flashes yellow when activity is detected on the network.
Relays	Illuminated yellow when the corresponding relay is energized.
Inputs	Illuminated yellow when the corresponding digital input is "on"


SETUP PAGE

Additional features are configured on the I/O Module Setup Page shown in Figures 4-14.

1. Ensure the Metro-Economy controller is powered on.
2. Wait for the Ethernet - Link LED on the I/O Module to be solid on indicating the device is connected to the network.
3. Using a computer on the same network as the I/O Module, open a web browser and enter:
`http://[IP Address]/setup.html`

Replace [IP Address] with the IP address of the I/O Module. This may differ from the factory default setting if a static IP address was previously configured, or the module is using DHCP.

4. Enter Setup Username and Setup Password.



GENERAL INFORMATION

Part Number: X-410-I

Firmware Revision: 3.07

Serial Number: 00:0c:c8:06:ec:f9

Vin Voltage: 24.2 V

Latitude:

Longitude:

Temperature Units: Fahrenheit Celsius Kelvin

Figure 4 - I/O Module Setup - General Information

Use the General Information page (Figure 4) to view information about the I/O Module and configure device location.

NETWORK SETTINGS
The following network settings will require reboot to take affect.

Use DHCP: Yes No

IP Address:

Subnet Mask:

Gateway:

Preferred DNS Server:

Alternate DNS Server:

HTTP Port Enabled: Yes No

HTTP Port:

HTTPS Port:

Supports 1024-bit and 2048-bit encryption.

Figure 5 - I/O Module Setup - Network Settings

Use the Network Settings page (Figure 5) to configure IP settings. Settings on this page require reboot to take affect.

✉ EMAIL SETTINGS

SMTP Server:

* Connection Security: None ▼

Server Port:

Username (If required):

Password (If required):

Hide / Show Password

📌 Return Email:

📌 * Email 1:

Email 2:

Email 3:

Email 4:

Email 5:

Email 6:

Email 7:

Email 8:

📌 Email Message: Full Short

* Encrypted email messages will only be sent when there are enough resources available on the device. If a direct HTTPS connection and Remote Services are both in use at the same time, then email messages will not be sent until the direct HTTPS connection is closed. Test email messages are sent to the first email address only.

Figure 6 - I/O Module Setup - Email Settings

Use the Email Settings page (Figure 6) to configure email settings used for remote notifications.

PASSWORDS

ADMINISTRATOR
Access to all setup and control pages. Username: "admin"

Enter Password:

Re-enter Password:

Hide / Show Password

MANAGER
Access to Tasks and Control Pages. Username: "manager"

Enable Manager Login: Yes No

USER
Access to Control Pages only. Username: "user"

Enable Password Requirement: Yes No

DEVICE PSK
Preshared Key used by other devices when communicating with this one.

PSK:

Figure 7 - I/O Module Setup - Passwords

Use the Passwords page (Figure 7) to configure Setup Page and Control Page passwords. It is strongly recommended to change the factory default passwords.

🕒 DATE & TIME

Current: Fri, 03 Jan 2020 00:43:07

Set:

NTP Host Name:

NTP Sync Interval:

Sync On Powerup: Yes No

UTC Offset: :

🕒 DAYLIGHT SAVINGS

Enable: Yes No

Start Date:

End Date:

Figure 8 - I/O Module Setup - Date & Time

Use the Date/Time page (Figure 8) to configure module date and time. These must be set properly for logging and email time stamp accuracy.

⚙️ GENERAL LOGGING SETTINGS

Enable Logging: Yes No

Start Time: 00 :: 00

Interval: 30 Mins Hours Days Event Only

ⓘ Power Up State: Running

Next Log Time: Event Logging Only
View Log

📊 LOG I/O

☑ RELAYS

Name	Log	Trigger Log Event
Relay 1	<input type="checkbox"/>	<input type="checkbox"/>
Relay 2	<input type="checkbox"/>	<input type="checkbox"/>
Relay 3	<input type="checkbox"/>	<input type="checkbox"/>
Relay 4	<input type="checkbox"/>	<input type="checkbox"/>

☑ DIGITAL INPUTS

Name	Log	Counter/Freq	On Time	Total On Time	Trigger Log Event
Digital Input 2	<input type="checkbox"/>				<input type="checkbox"/>
Digital Input 3	<input type="checkbox"/>				<input type="checkbox"/>
Digital Input 4	<input type="checkbox"/>				<input type="checkbox"/>
OVDS Alarm (Counter Mode)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

Figure 9 - I/O Module - Logging (Page 1)

⊙ REGISTERS

Name	Log	Trigger Log Event	Delta
OVDS Alarm Daily Count	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2

⊙ VIN

Name	Log	Trigger Log Event	Delta
Vin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.0

🔧 DIAGNOSTIC SETTINGS

Log XML/JSON Requests: Enable

Log MODBUS Requests: Enable

Log SNMP Requests: Enable

Exclude Logged Requests: None Reads Writes

✉ SEND LOG FILE

Daily Send Time (HH:MM): 23 : 00

ⓘ Email Log File: Enable

FTP Upload Log File: Enable

Figure 10 - I/O Module - Logging (Page 2)

Use the [Logging](#) page (Figures 9-10) to configure event logging. The unit is factory configured to log OHVDS Alarm events.

DIGITAL INPUTS		
Name	Local Digital Input #	Edit
OVDS Alarm (Counter Mode)	1	<input type="button" value="Edit"/>
Digital Input 2	2	<input type="button" value="Edit"/>
Digital Input 3	3	<input type="button" value="Edit"/>
Digital Input 4	4	<input type="button" value="Edit"/>

Figure 11 - I/O Module Setup – Digital Inputs

Use the [Digital Inputs](#) page (Figure 11) to configure device inputs. Digital Input 1 is factory configured for OHVDS Alarm.

RELAYS			
Name	Local Relay #	Group	Edit
Relay 1	1	No Group	<input type="button" value="Edit"/>
Relay 2	2	No Group	<input type="button" value="Edit"/>
Relay 3	3	No Group	<input type="button" value="Edit"/>
Relay 4	4	No Group	<input type="button" value="Edit"/>

Figure 12 - I/O Module Setup – Relays

Use the [Relays](#) page (Figure 12) to configure device relays. This feature is not used in Model ME-IR/1000.

TASKS/FUNCTIONS
FRI, 03 JAN 2020 00:45:56
CURRENTLY RUNNING NORMAL SCHEDULE

SCHEDULED ⓘ
Add Scheduled Task +

Name	Start Date/Time	Repeat	Actions	Next Occurrence	Run Mode	Edit
Reset Daily Alarm Count	Thu, 02 Jan 2020 00:00:01	Daily	Set OVDS Alarm Daily Count To 0	Sat, 04 Jan 2020 00:00:01	Always	<input type="button" value="Edit"/> <input type="button" value="X"/>

CONDITIONAL ⓘ
Add Conditional Task +

Name	Trigger	Actions	Edit
Alarm Active	If OVDS Alarm is Active	Increment OVDS Alarm Daily Count By 1	<input type="button" value="Edit"/> <input type="button" value="X"/>

AUTOMATIC REBOOT ⓘ
Add Auto Reboot Task +

Name	Ping	Action(s)	Status	Edit
				<input type="button" value="Edit"/>

OVERVERRIDE SCHEDULES

OVERVERRIDE SCHEDULE ⓘ
Add Override Schedule +

Name	Start Date/Time	End Date/Time	Repeat	Edit
				<input type="button" value="Edit"/>

Figure 13 - I/O Module – Tasks/Functions

Use the Tasks/Function page (Figure 13) to configure Scheduled and Conditional Tasks.

Scheduled tasks run at a specific time and on specific days of the week.

Conditional tasks occur (run) if certain conditions are met.

Scheduled Tasks

Reset Daily Alarm Count task is factory configured to reset the daily alarm count daily at 00:00:01.

Conditional Tasks

Alarm Active task is factory configured to increment the daily alarm count by one each time an over-height vehicle is detected. Enable remote notifications by editing this task and adding desired notification type to “Set Action 2” (Figure 14).

Automatic Reboot Tasks

This feature is not used in Model ME-IR/1000.

Edit Conditional Task: Alarm Active
✕

Task Name:

If:

TRIGGER
Triggers **ONLY** occur when conditions change to true. The logic operations are event driven, and are not combinational. Conditions must change to false and back to true to re-trigger.

Condition 1:

Status Is:

And

Condition 2:

During:

Then:

ACTIONS
Actions only occur at the moment the trigger status changes to true. **Note that you MUST create a second task if the condition must change when the trigger status becomes false.**

Set Action 1:

Increment By:

Set Action 2:

Set Action 3:

Figure 14 - I/O Module – Alarm Active Task

CONTROL PAGE

Use the following steps to access the Control Page to view real-time OHVDS Alarm status:

1. Ensure the Metro-Economy controller is powered on.
2. Wait for the Ethernet - Link LED on the I/O Module to be solid on indicating the device is connected to the network.
3. Using a computer on the same network as the I/O Module, open a web browser and enter: [http://\[IP Address\]](http://[IP Address])

Replace [IP Address] with the IP address of the I/O Module. This may differ from the factory default setting if a static IP address was previously configured, or the module is using DHCP.

4. Enter Control Username and Control Password.
5. The Control Page will display the OHVDS Dashboard which includes the current Alarm Status and Alarm Count. Active Alarm Status is shown in Figure 15. Inactive Alarm Status is shown in Figure 16.

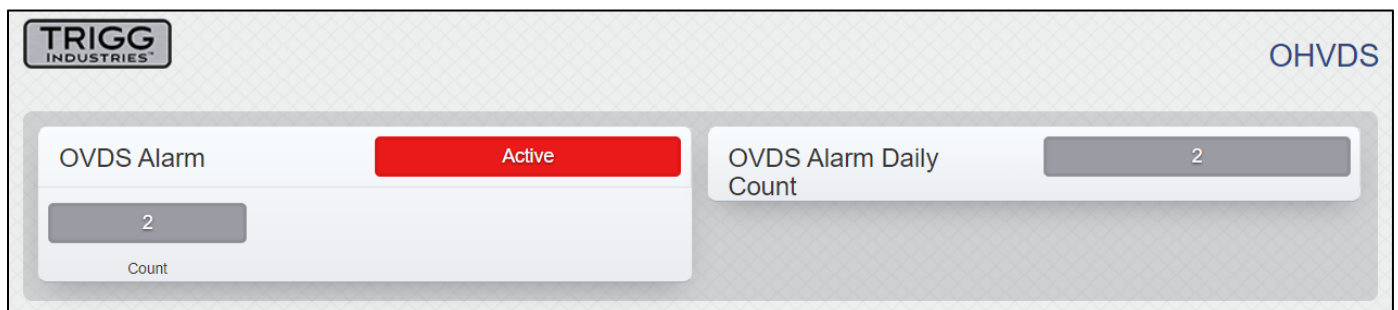


Figure 15 - Active Alarm Status

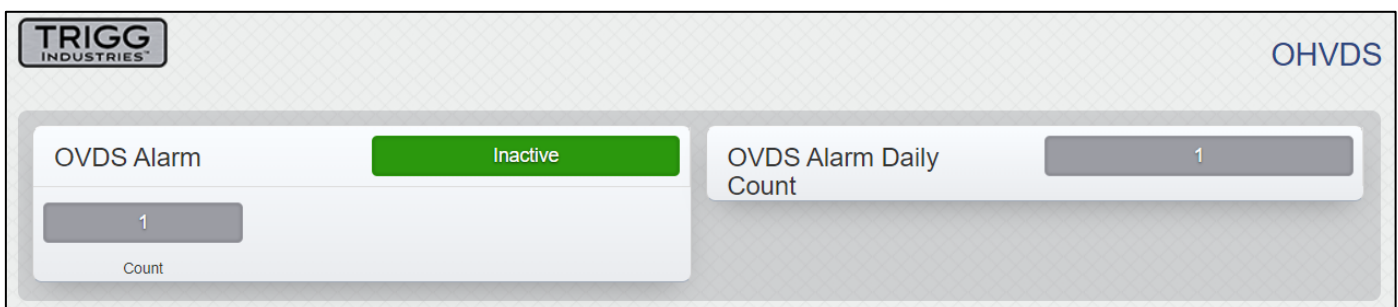


Figure 16 - Inactive Alarm Status



SUPPORT

For technical support, contact Trigg Industries, LLC.

Phone: 757-223-7522

Email: support@triggindustries.com