



*Innovative Electronics for a changing world*

## MANUAL



Our Site – Monitor products permit the monitoring and control of equipment at any site with IP connectivity in the comfort of your office. The Ethernet Relay is the perfect addition to any remote repeater site to control and monitor equipment via Ethernet and SNMP.

The Ethernet Relay connects to an Ethernet-based TCP/IP network and accepts SNMPv1 or SNMPv2 queries to permit monitoring of **Relay status x 2** and the Supply voltage.

The board accepts **12Vdc to 24V** dc from a standard Barrel DC jack connector or the 2 way pcb screw type connector.

The two on board Relays can be controlled via web browser and each one can be separately selected by a pcb jumper to either do a reset function for 8sec to reset remote equipment or to switch and keep its position until change by the user to switch remote equipment on or off.

**Default IP address = 192.168.1.2**

Master Reset the unit: Remove power to the unit

Install J10 jumper marked "reset" on the pcb across both pins, power the unit and wait 15sec, remove the jumper from J10, unit will be reachable at the default 192.168.1.2 address

Home Page

The screenshot shows the 'Ethernet Relay-SNMP' home page. On the left is a red navigation menu with 'Home Page', 'Relay Control', 'Network Configuration', and 'SNMP Configuration'. The main content area features the 'Ethernet Relay-SNMP' title, system information (Stack Version: v5.36, Build Date: Dec 18 2016 serial # Mi-0001), and a status box for 'Relay's 2 - 1' showing 'Module Heartbeat' and 'Supply Voltage: 09.7'. A copyright notice for 2016 Micro Instruments is at the bottom.

Selector Menu on the left

Stack version and Serial number in middle

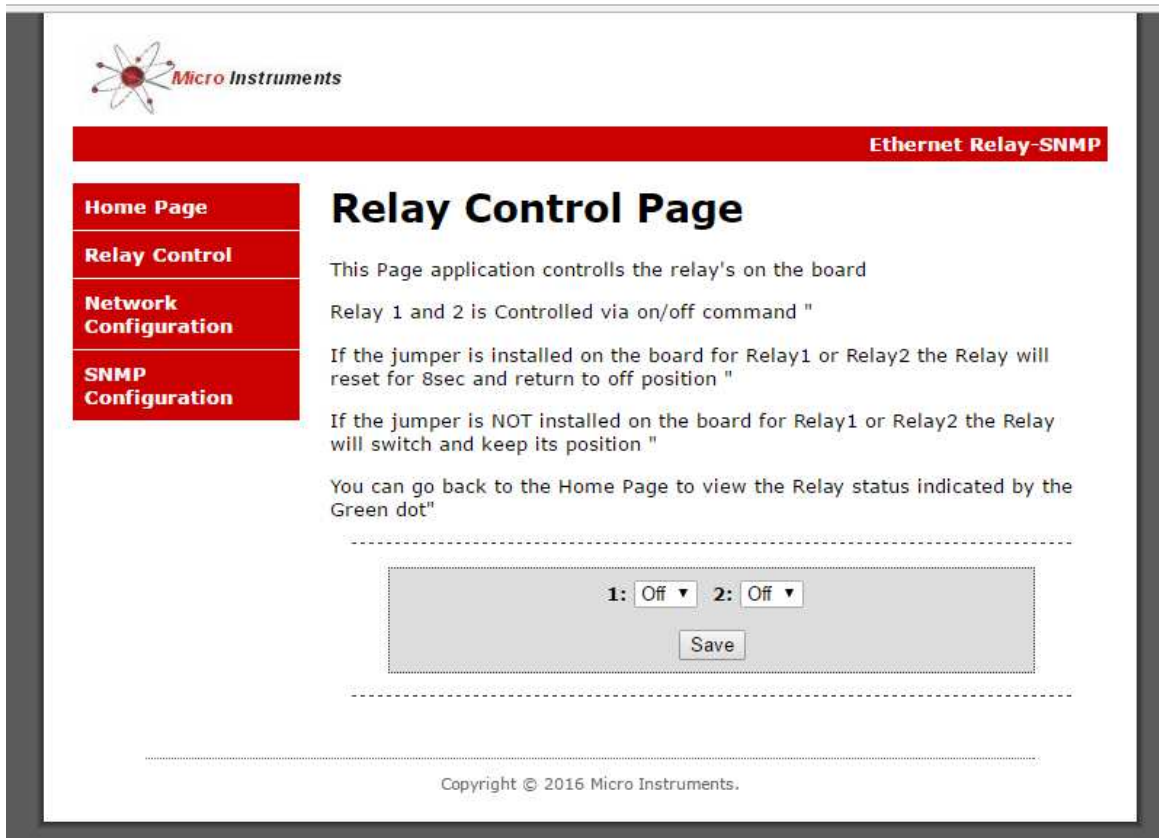
Relay Status – module heartbeat and supply voltage on the right

## Relay Control Page

This screenshot shows the 'Relay Control' page with an 'Authentication Required' dialog box overlaid. The dialog prompts for a username and password for the URL http://192.168.1.2. The background page shows the same navigation menu and system information as the previous screenshot, but the status box now displays 'Supply Voltage: 10.3'.

User name: admin

Password: admin / user can change Password under Network settings page



**Micro Instruments**

**Ethernet Relay-SNMP**

**Home Page**

**Relay Control**

**Network Configuration**

**SNMP Configuration**

## Relay Control Page

This Page application controls the relay's on the board

Relay 1 and 2 is Controlled via on/off command "

If the jumper is installed on the board for Relay1 or Relay2 the Relay will reset for 8sec and return to off position "

If the jumper is NOT installed on the board for Relay1 or Relay2 the Relay will switch and keep its position "

You can go back to the Home Page to view the Relay status indicated by the Green dot"

1: Off ▼ 2: Off ▼

Save

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**J9** jumper on board for **Relay1**(Reset/Pulse) jumper installed – **Relay 1** will energize for 8sec and then return to off position ( reset a device)

**J9** jumper on board for **Relay1** (Reset/Pulse) jumper **NOT** installed – **Relay 1** will energize and keep the position until switched off.

**J5** jumper on board for **Relay2**(Reset/Pulse) jumper installed – **Relay 2** will energize for 8sec and then return to off position ( reset a device)

**J5** jumper on board for **Relay2** (Reset/Pulse) jumper **NOT** installed – **Relay 2** will energize and keep the position until switched off.

Here the IP address, Password, Gateway and subnet mask can be specified to match your network settings

Click Save Configuration, the board will reboot with the new settings

### SNMP Configuration Page

Snmp Walk 192.168.1.2

From:     Old:

To:    Timeout:

Profile:    Tries:

List  

#	Oid	Type	Value
1	iso.org.dod.internet.mgmt.mib-2.system.sysDescr.0	octet string	Ethemet Relay
2	iso.org.dod.internet.mgmt.mib-2.system.sysObjectID.0	object id	iso.org.dod.internet.private.enterprises.45501
3	iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.sysUpTimeInstance	timeticks	00:08:27.52
4	iso.org.dod.internet.mgmt.mib-2.system.sysContact.0	octet string	admin
5	iso.org.dod.internet.mgmt.mib-2.system.sysName.0	octet string	Micro Instruments
6	iso.org.dod.internet.mgmt.mib-2.system.sysLocation.0	octet string	Remote
7	iso.org.dod.internet.mgmt.mib-2.system.sysServices.0	integer	10
8	iso.org.dod.internet.private.enterprises.45501.1.1.1.0	octet string	SNMPv1/2Agent
9	iso.org.dod.internet.private.enterprises.45501.1.1.2.0	octet string	V1
10	iso.org.dod.internet.private.enterprises.45501.1.1.3.0	octet string	June 16
11	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.0	integer	0
12	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.1	integer	1
13	iso.org.dod.internet.mgmt.mib-2.system.sysDescr.0	octet string	Ethemet Relay
14	iso.org.dod.internet.mgmt.mib-2.system.sysObjectID.0	object id	iso.org.dod.internet.private.enterprises.45501
15	iso.org.dod.internet.mgmt.mib-2.system.sysUpTime.sysUpTimeInstance	timeticks	00:08:28.20
16	iso.org.dod.internet.mgmt.mib-2.system.sysContact.0	octet string	admin
17	iso.org.dod.internet.mgmt.mib-2.system.sysName.0	octet string	Micro Instruments
18	iso.org.dod.internet.mgmt.mib-2.system.sysLocation.0	octet string	Remote
19	iso.org.dod.internet.mgmt.mib-2.system.sysServices.0	integer	10
20	iso.org.dod.internet.private.enterprises.45501.1.1.1.0	octet string	SNMPv1/2Agent
21	iso.org.dod.internet.private.enterprises.45501.1.1.2.0	octet string	V1
22	iso.org.dod.internet.private.enterprises.45501.1.1.3.0	octet string	June 16
23	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.0	integer	0
24	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.1	integer	1
25	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.2.0	integer	0
26	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.2.1	integer	0
27	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.3.0	ip address	0.0.0.0
28	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.3.1	ip address	0.0.0.0
29	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.4.0	octet string	
30	iso.org.dod.internet.private.enterprises.45501.1.2.1.1.4.1	octet string	
31	iso.org.dod.internet.private.enterprises.45501.1.3.1.0	integer	0
32	iso.org.dod.internet.private.enterprises.45501.1.3.2.0	integer	0
33	iso.org.dod.internet.private.enterprises.45501.1.3.3.0	octet string	09.6
34	iso.org.dod.internet.private.enterprises.45501.1.3.3.0.0	null	
35	iso.org.dod.internet.private.enterprises.45501.1.3.3.0.0.0	null	
36	iso.org.dod.internet.private.enterprises.45501.1.3.3.0.0.0.0	null	
37	iso.org.dod.internet.private.enterprises.45501.1.3.3.0.0.0.0.0	null	
38	iso.org.dod.internet.private.enterprises.45501.1.3.3.0.0.0.0.0.0	null	

OID 1.3.6.1.4.1.45501.1.3.1.0 = Relay 1 ( 0 for off and 1 for On)

OID 1.3.6.1.4.1.45501.1.3.2.0 = Relay 2 ( 0 for off and 1 for On)

OID 1.3.6.1.4.1.45501.1.3.3.0 = Supply voltage from either DC jack or pcb terminal

## Physical

L=80mm – W = 70mm – H = 30mm