## G<u><u><u></u></u> INSTEK</u>





## **GW Instek DAQ-9600**

**Digital Dual Measurement Multimeter** 

LAN Connection Guide (NI MAX)

## 

#### Step1 ~ Connection Methods

- Method 1 : through Switch
- [NOTE]:
- It is easier making connection by Personal computer with IP

settings automatically and DAQ-9600 with DHCP selected.



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• Method 2 : direct connection

## [NOTE]:

- Personal computer must use fixed IP settings
- DAQ-9600 settings (see below): (Please refer to the example content completely)



LOC 232				C 🗉 I	•) 🚼	늘 23: <b>0</b> 2:3
System	Display	Interface	Lan Setup			MENU
DHCP IP Addre Subnet Gateway DNS1 DNS2	OFF Address St 255 . 255 172 . 016 255 . 255 172 . 016 172 . 016 172 . 016	<b>tup</b> . 001 . 100 . 255 . 000 . 001 . 254 . 001 . 252 . 001 . 248	MAC Ad Web Telnet Telnet P Telnet E TCP TCP Por	dress Protoc ort CHO t	160110 ON ON 502 ON ON 502	DFF0809  ▼  ▼ 24  ▼ 25
Page Up	Page Down	PREV	NEXT	Ente		Exit Menı

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Step2 : Check DAQ system information for LAN configuration

### [NOTE]

Please turn the DAQ-9600 OFF and then back ON to check the IP address after the I/O Model is selected to LAN and then DHCP Model either ON or OFF.

DHCP Model : ON (Suitable for Method 1)

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System	Display	Interface	Lan Setup			MENU
DHCP	ON		MACAd	ldress	160110	FF0809
IP	Address S	etup		Proto	col	
IP Addre	ss 192 . 01(	6.001.100	Web		ON	<b>•</b>
Subnet	255 . 255	5 . 255 . 001	Telnet		ON	-
Gateway	172 . 010	6 . 001 . 250	Telnet P	'ort	502	4
DNS1	172 . 010	6 . 001 . 254	Telnet E	сно	ON	<b>•</b>
DNS2	172 . 010	6 . 001 . 246	ТСР		ON	-
			TCP Por	t	502	5
Page Up	Page Down	PREV	NEXT	Ent	er E	ixit Menu

(When DHCP is set to ON, the IP Address Setup can't be edit.)

• DHCP Model : OFF (Suitable for Method 2)

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System	Displa	IV	Interi	face	Lan Setup			M	ENU
DHCP	OF Addres	F s Se	-		MACAd	dress Proto	1601 <sup>-</sup> col	10FF08	09
IP Addre Subnet Gateway DNS1 DNS2	iss <u>172</u> 255 172 172 172 172	016 255 016 016 016	001 255 001 001 001	. 100 . 000 . 254 . 252 . 248	Web Telnet Telnet P Telnet E TCP TCP Por	ort CHO t	0N 0N 50 0N 0N 50		
Page Up Page Down PREV NEXT Enter Exit Menu									



## Step3 : Open NI MAX





#### Step4 : My System ~

### Click on Devices and Interfaces



#### Step5 : My System ~

Select Network Devices



#### Step6 : My System ~

- Click on Add Network Device
- Select VISA TCP/IP Resource...



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## Step7 : Create New... ~ Choose the type of LAN resource you want

#### to add.



- Select Manual Entry of Raw Socket
- Press Next > to next step



## Step8 : Create New... ~ Enter the LAN resource detailed.

Create New		?	×
Enter the LAN resource details.		NATIO INSTRU	NAL IMENTS
	Enter the TCP/IP address of your VISA network reso of xxxxxxxxxxxx, the hostname of the device, or a computer@some.domain	urce in the	form
	Hostname or IP address 172.16.1.100		
	Port Number 5025	Valida	ate
	< Back Next > Finish	Can	cel
<ul> <li>Fill in Hostname or IP</li> </ul>	address : according to Step2		

- Fill in Port Number : 5025
- Press NEXT>

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## Step9 : Create New... ~ Specify an alias for the resource (optional)

🔀 Create New			?	×
Specify an alias for this re	esource (optior	nal).	NATIO	NAL IMENTS
	You can specify an al for a device that make Use aliases in your co without specifying the You may assign or ch alias editor or by clicki Type in the alias you v alias field blank to not Resource Name: Alias:	ias for this device. An alias is es it easier to identify your inst de when opening sessions to ir full VISA resource strings. ange the alias at a later time t ing on the device to rename it want to assign to this device of assign an alias to this device TCPIP0:: 172.16.1.100:5025 DAQ-9600	a logical name rument. devices nrough the or leave the ::SOCKET	
	< Back	: Next > Fi	nish Ca	ncel

• Fill in Alias : (if necessary)

## Press Finish to complete

TCPIP0:: 172.16.1.100::5025::SOCKET "DAQ-9600" - Measurement & Automation Explorer						
File Edit View Tools Help						
▼       My System         > □       Data Neighborhood         ▼       Image: Devices and Interfaces         Image: Operation of the state of	Settings           Settings           Name           Hostname           IPv4 Address           Status           Port Number           VISA Resource Name	Open VISA Test Panel DAQ-9600 172.16.1.100 172.16.1.100 Present 5025 TCPIP0:: 172.16.1.100::5025::SOCKET				
> 🚄 Scales > 🔂 Software	VISA Resource Name	TCPIPU:: 172.16.1.100:5025 ::SOCKET				



### Step10 : Open VISA Test Panel

TCPIPO:: 172.16.1.100::5025::SOCKET "DAQ-9600" - Measurement &	& Automation Explorer
File Edit View Tools Help  V I My System  Data Neighborhood	🖬 Save 💦 Refresh 🎽 Open VISA Test Panel
<ul> <li>▶ Data Neighborhood</li> <li>♥ Devices and Interfaces</li> <li>● ASRL1::INSTR "COM1"</li> <li>● ASRL2::INSTR "COM2"</li> <li>● ASRL10::INSTR "LPT1"</li> <li>● ASRL10::INSTR "LPT1"</li> <li>● Network Devices</li> <li>금급 GSP-9330 "TCPIP0::172.16.27.149::hislip0,4880::INSTR"</li> <li>금급 GSP-9330 "TCPIP0::172.16.27.149::hislip0,4880::INSTR"</li> <li>금급 GSP9300 "TCPIP0::172.16.27.167::hislip0,4880::INSTR"</li> </ul>	Settings       Name     DAQ-9600       Hostname     172.16.1.100       IPv4 Address     172.16.1.100       Status     Present       Port Number     5025
	VISA Resource Name TCPIP0:: 172.16.1.100:5025::SOCKET
> 😫 Rei 🔀 TCPIP0:: 172.16.1.100::5025::SOCKET - VISA Test Panel	X
Configuration Input/Output	Advanced NI I/O Trace Help INSTRUMENTS
TCP/IP Settings I/O Settings View Attributes Standard Settings	on Methods SET Suppress End On Reads to VI_FALSE
Timeout (ms) 2000 ♥ Ser Sur End	end End On Writes SET Enable Termination to VI_TRUE No Error No Error
I/O Protocol Normal 488.2 Strings	ination Character Value Feed - ∖n ✓ ×A
	Refresh Apply Changes

- Click on Open VISA Test Panel
- Select I/O Settings of Configuration
- Set Termination Methods according picture (above)
- Press Apply Changes to complete setting



## Step11 : Send Command to confirm communication

💥 TCPIP0:: 172.16.1.100::5025::SOCKET - VISA Test Panel				- 🗆	×
Configuration Input/Output	Advanced	NI I/O Trace	Help		NTS
Basic I/O Select or Enter Command *IDN?\n *IDN?\n Write Query Read View mixe GWInstek,DAQ-9600, GPM8213005,V1.05\r\n	Read Status Byte ed ASCII/hexadecima	Bytes to Read 1024 🔹 Clear al 💉 Clear Buffer	Return Data Read Oper VISA: (Hex specified to was read.	a rration x 0x3FFF0005) The termination charact	er

- Click on Input/Output
- Press Query to send command (\*IDN?\n)
- DAQ-9600 response