



05-007A
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ETHERNET CONNECTION (LOCAL AREA NETWORK)

- I. **PURPOSE:**
To give instructions on how to setup the Ethernet in an E-Series analyzer to work in your area Network.
- II. **TOOLS:**
None
- III. **PARTS:**
Network Cable
- IV. **PROCEDURE:**

In order to setup the Ethernet in your analyzer you must have the Ethernet option installed and INET must be enabled.

1. From the MAIN MENU press **SETUP-MORE-COM-ENTR**. Ensure that **INET** is an active button if not please follow step 2. If it is go to step 6.
2. From the MAIN MENU press **SETUP-MORE-DIAG-929-ENTR**. Press **NEXT** until you come to **FACTORY OPTIONS** and then press **ENTR**.
3. Press **NEXT** until you come to **INTERNET ENABLE** or something similar. Turn this **ON** and press **ENTR**.
4. Press **EXIT** and exit all the way out to the MAIN MENU.
5. Power **CYCLE** the instrument and repeat step 1.
6. Press **INET-929-ENTR** and Turn **ON DHCP** press **ENTR** and then press **EXIT**
7. The instrument will say **INITIALIZING**.
8. Wait until it the instrument is done initializing and then **EXIT** out to the Main Menu.
9. Turn **OFF** the instrument.
10. Plug your network cable into the Ethernet board on the rear panel of the instrument.
11. Turn **ON** the instrument.
12. Once the instrument is in the Main Menu press **SETUP-MORE-COMM-INET-929-NEXT**. You should now see the **INSTRUMENT IP**. Record this value.
13. From your computer go into the **COMMAND PROMPT**
 - a. Windows 98 - START/PROGRAMS/MS DOS PROMPT
 - b. Windows XP - START/ALL PROGRAMS/ ACCESSORIES/ COMMAND PROMPT

EXAMPLE 1

```
Microsoft Windows XP [Version 5.1.2600]
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H:\>
```

14. We are going to ping the analyzer. Type in **ping** and then the number recorded in step 12 and hit **ENTR**. Refer to example 2

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EXAMPLE 2

```
Microsoft Windows XP [Version 5.1.2600]
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H : \ > ping 123 . 12 . 12 . 14
```

15. The computer should respond with 4 replies. Refer to Example 3

EXAMPLE 3

```
Microsoft Windows XP [Version 5.1.2600]
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H : \ > ping 123 . 12 . 12 . 14

Pinging 123 . 12 . 12 . 14 with 32 bytes of data :

Reply from 123 . 12 . 12 . 14    bytes = 32    time = 9ms    TTL = 64
Reply from 123 . 12 . 12 . 14    bytes = 32    time = 4ms    TTL = 64
Reply from 123 . 12 . 12 . 14    bytes = 32    time = 3ms    TTL = 64
Reply from 123 . 12 . 12 . 14    bytes = 32    time = 4ms    TTL = 64

Ping statistics for 123 . 12 . 12 . 14 :
Packets : Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milli-seconds :
Minimum = 3ms, Maximum = 9ms, Average = 5ms
H : \ > _
```

16. If the computer responds correctly then you are now able to connect to the instrument through your Local Area Network and use APICOM or HYPER TERMINAL to connect to the instrument.
17. If the computer does not respond properly (TIMED OUT) shown in Example 4, then you must consult your IT Person and get a static IP, Gateway and Subnet Mask addresses from them.

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EXAMPLE 4

```
Microsoft Windows XP [Version 5 . 1 . 2600]  
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```

```
H : \ > ping 123 . 12 . 12 . 14
```

```
Pinging 123 . 12 . 12 . 14 with 32 bytes of data :
```

```
Request timed out  
Request timed out  
Request timed out  
Request timed out
```

```
Ping statistics for 123 . 12 . 12 . 14 :
```

```
Packets : Sent = 4, Received = 0, Lost = 4 (100% loss)
```

18. Once you get the addresses enter the IP,GATEWAY and SUBNET addresses into the instrument and repeat step 14.

If there are any questions regarding this service note please contact a Teledyne API Customer Service Representative.

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