SAGE METERING, INC.

PARAMOUNT ™ (401/402) VAC/VDC

Ethernet TCP/IP Quick Start Guide

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A. Upon power-up, the COMM LED should flash, indicating that the Ethernet protocol is active

B. Open the following IP Address Discovery tool:

https://www.iccdesigns.com/downloads/ddt/exe/Device%20Discovery%20Tool.exe

C. On the Discovery tool – Choose DHCP or Static IP address, refer to image A on page 2

1. DHCP will choose the first available IP address
2. Static requires the user to set IP address

D. To choose DHCP or to set a static IP address -

1. On Discovery tool – Open Web
2. Click Ethernet Parameters
3. Click Edit
4. Choose DHCP or STATIC for IP assignment
5. If DHCP is chosen, Click “Save parameter changes”
6. If STATIC is chosen → assign 192.168.XX.XXX (next to Address)
7. Click “Save parameter changes”

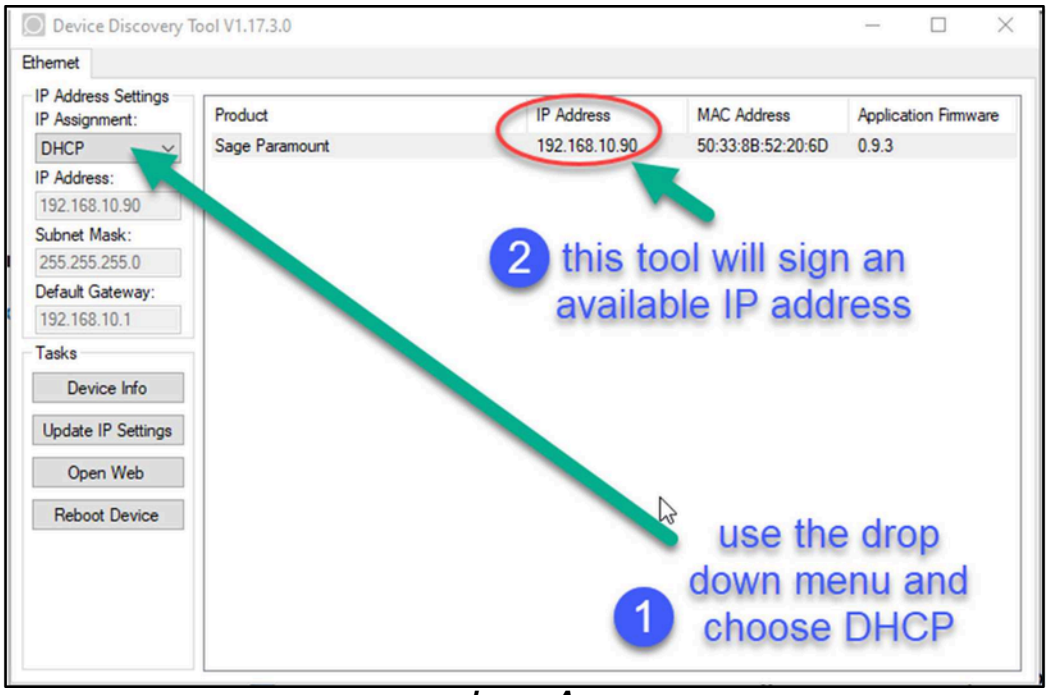
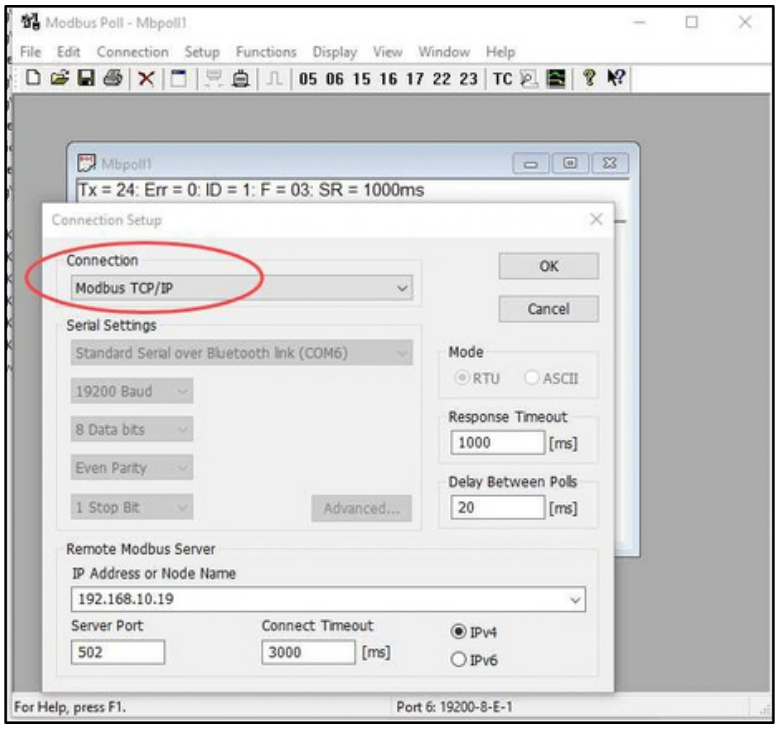


Image A

E. When using Modbus Poll → Connection → Choose Modbus TCP/IP



F. Input IP Address → 192.168.XX.XXX
G. Identify your Server Port
H. Click OK

Ethernet TCP/IP Object Map

OBJECT DESCRIPTION	ETHERNET OBJECT BASE 0	FORMAT
Serial Number	0000	INT 32 LITTLE ENDIAN BYTE SWAP
Totalizer Value	0002	INT 32 LITTLE ENDIAN BYTE SWAP
K - factor	0004	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
Filter	0006	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
Low Flow Cutoff	0008	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
Full Scale Flow	0010	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
Flow Rate	0012	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
TEMP °F	0014	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP
RTD mWatts	0016	32 BIT FLOAT LITTLE ENDIAN BYTE SWAP

DEFAULT SETTINGS

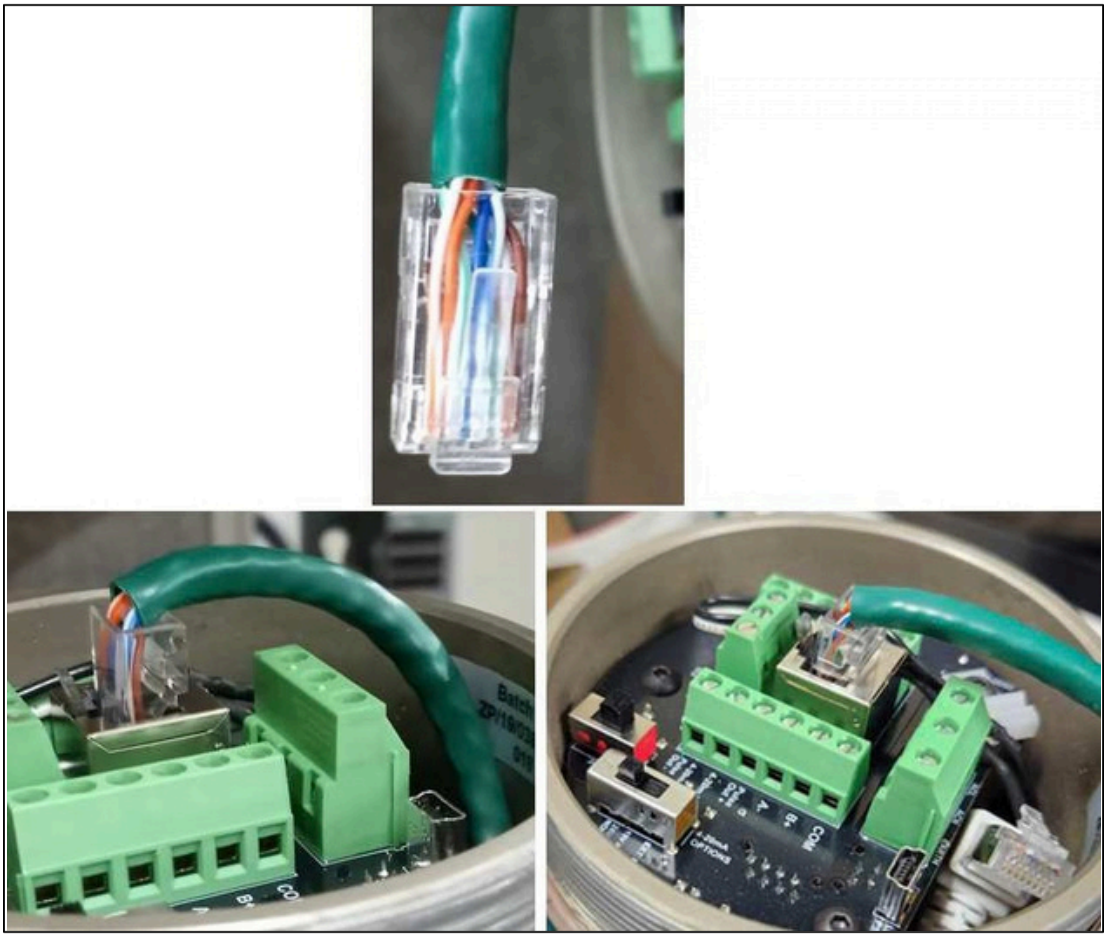
Baud Rate	19200
Data Bits	8
Parity	EVEN
Stop Bits	1

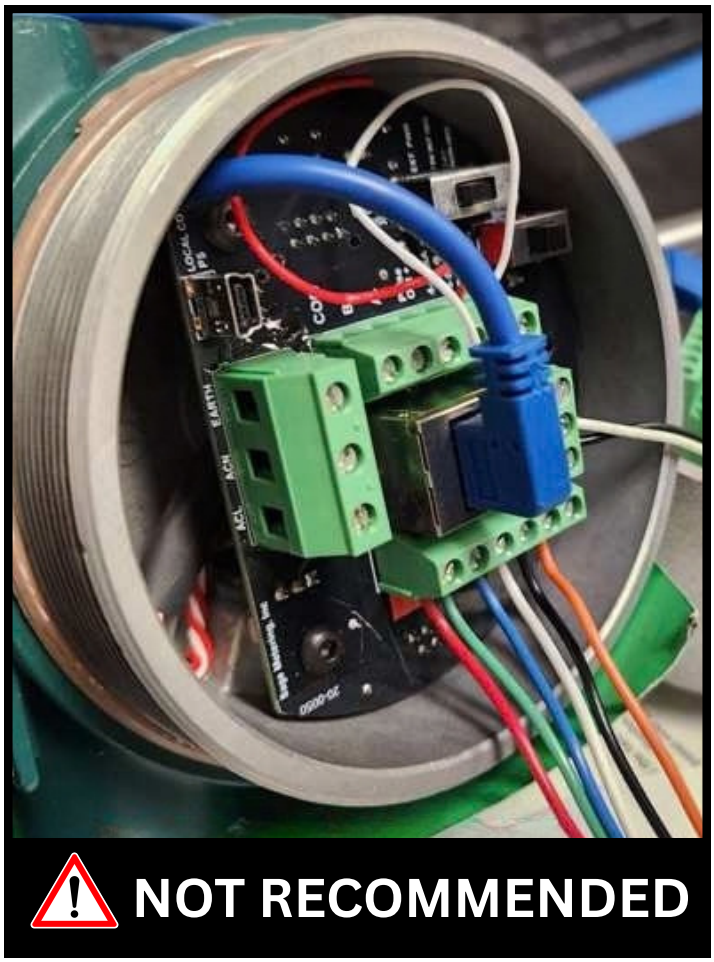
ADDENDUM

Methods for connecting the RJ-45 connector to the Ethernet Wiring

Traditionally. we do not specify exactly how to make up this connection as those that make up cables know how to deal with potential clearance issues. There are data racks in data centers that are even tighter on space than our instrument. Keep in mind that we normally say where to land the wires in our instrument, but not what conduit and fittings to use as a professional electrician would know what to use and what compliance certs are needed. Same with ethernet cable. A qualified IT guy would know how to deal with this easily. Can we do better? Yes, Absolutely. More on that in a minute.

We do this regularly and have not had any serious issues with this design. Most network guys would pull the wire, strip it back a bit and crimp the connector on the end of the wires. This fits easily as there is no cord strain relief like on prefabbed cables. If one must use prefabbed cables, you can purchase right angle molded cables that will fit as well. The images below show some common ways to run the cables:





You can see that these methods both fit nicely and are standard ways to deal with tight cable connection areas. I would not call this a mistake. If the 90-degree molded cable end had a loop sticking up when tightening the cap on, that could catch and twist the wiring as well. Again, can it be better? Anything can be improved. Perhaps we should put a caution in the manual to verify that youhave clearance for the cable loop before installing the cap. The FIRST two pictures are just from our product testing area, nothing particularly special. And the caps fit nicely.