

CPP WITH I P ADDRESS

The CPP series of Data Loggers have standard RS-232/422/485 communication ports that can be connected to a PC using the standard serial ports. Sometimes the Connection Location is prohibitive for communications in both distance and in cable cost.

This is resolved if the PC is on a Local Area Network or connected to an Internet service Provider. The LAN is discussed first.

LAN Connectivity

We offer a device that is a Serial Server. That is to say that when set up properly it converts the Serial port into an IP Address that can be connected via a Ethernet cable to a Local Area Network called a LAN. This IP Address can then be called up from any PC on the LAN using a Comport Redirector. This Comport Redirector creates a virtual Comport on a PC that address a specific IP Address. The Data Acquisition Software then uses that Comport to address the CPP and hence retrieve data. The Redirector runs in the background. The CPP and the software operate just as if the CPP was right beside the PC connected with a standard serial cable.

ISP / WAN Connectivity

This same Serial Server can be connected via a Router a DSL Internet modem with a "FIXED" IP Address. This cannot be used with a dial up Internet modem due to the fact it does not have a fixed IP Address. The Polling PC then would connect to its ISP via dial up or DSL or Cable Modem. With the Comport Redirector active, it then communicates with the CPP via its IP Address. Due to the fact that a Router has built in Firewall's you must configure the Router using specific ports that allow you to bypass those road blocks. As with a LAN the Redirector runs in the background and you do not even know it is running, unless of course you can no longer communicate with the Logger. Your CPP and your software runs just like you had the CPP right beside the PC connected with a standard serial cable. The beauty about this is that based on DSL connectivity you can install the CPP anywhere in the world and communicate with it from anywhere else that you have an Internet Connection.

Application Note AN_Ether describes setting up the Ethernet interface offered by H2NS.