

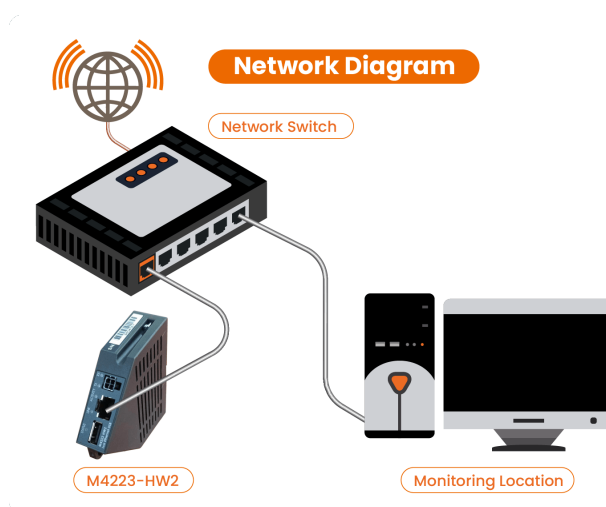


M4223-HW2 / M4223-USERHW2 Ethernet Communications Module

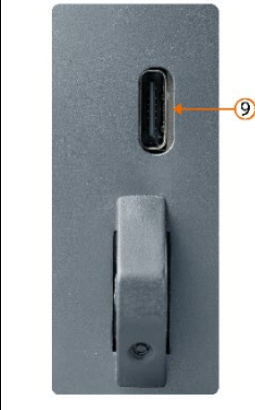
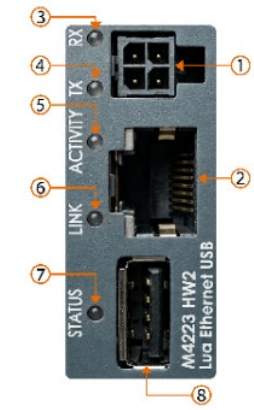
Module Description:

Network	10/100/1000 Base TX with Auto Negotiation
Physical Connection	• RJ45 Ethernet Port • USB-A 2.0 Port • USB-C Port • RS422 Port (4-pin)
Services	DHCP Client HTTP Server (module setup only) – TCP Port 80 10 Raw bi-directional port (SER.3A on indicator) – TCP Port 2222 3 Raw transmit only ports (SER.3B on indicator) – TCP Port 2223 4 Raw bi-directional port (SER.3A on indicator) – UDP Port 42222 2 Raw transmit only ports (SER.3B on indicator) – UDP Port 42223
Power Supply	Internal
Status Indicators	Link – Indicates Ethernet link established Act – Indicates activity on the network Status – Flashing indicates module operating TX, RX – Flashing indicates RS422 Transmit / Receive
Web Interface	Default username – admin Default password – password
Hardware Specification	• 64-bit Arm® Cortex®-A53, 1.25GHz • 512MB SDRAM • 4GB Flash

Connection Diagram:

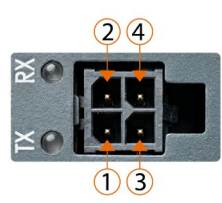


Module Connections:



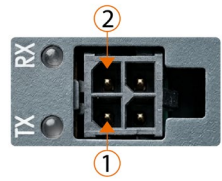
1 RS422 Port	7 Status indicator
2 Ethernet Port	8 USB-A 2.0 Port
3,4 RX, TX indicators	9 USB-C Port
5, 6 Activity, Link indicators	

Module connections(4 - Wire)



Pin	Signal
1	TXB
2	TXA
3	RXB
4	RXA

Module connections(2 - Wire)



Pin	Signal
1	B(-)
2	A(+)

M4223-HW2 / M4223-USERHW2 SETUP

The indicator should be switched OFF before installing or removing this device.

Modules are configured using the indicator setup. Setup can be done via the indicator keypad or the viewer program. An overview of setup is given below; see the indicator Quick Start or Reference manuals for detailed setup information.

The indicator provides configuration checking capabilities for the M4223-HW2 / M4223-USERHW2. This is found in the H.WARE setup menu. See the indicator Reference manuals. This module appears as serial ports 2A and 2B on the indicator.

SOFTWARE SETUP

Rinstrum Network

(i) SETUP. . . .SER.NET. . . . (Refer to reference manual for settings)

Automatic Output

(i) SETUP. . . .SER.AUT. . . . (Refer to reference manual for settings)

IP Configuration

(i) SETUP. . . .H.WARE. . . . ETH.HW. . . . (Refer to reference manual for settings)

Current IP Settings

(i) Acc. . . . M4223. . . . +/- Key. . . . (Refer to reference manual for settings)

M4223-HW2 / M4223-USERHW2 TROUBLESHOOTING

The module has 4 annunciators which help with troubleshooting. These annunciators are shown in the Module Connections figures above.

Problem	Possible solutions
Link LED not lit	Check cable Try connecting directly to switch or hub
Status LED not flashing	Indicates an error with the module – contact service
Cannot establish connection to indicator	• Check LINK LED is lit • Verify IP address against Acc menu • Attempt to ping indicator • Verify ACTIVITY LED flashes • Ensure connection is not being blocked by firewall between PC and indicator • Use web browser to connect to config page • Use telnet to establish a connection
Connection established, but no data received	Ensure the appropriate protocol (SER.NET or SER.AUT) has been assigned to use SER.3A or SER.3B