



GENERAL

CIPer Model 50 is a BACnet-compliant heating, ventilation, and air conditioning (HVAC) building controller. It runs the WEBs-N4 framework, integrating all trades in a building.

Thus, CIPer Model 50 is the ideal solution for HVAC controls requiring combination with lighting, shading, access control, and security applications. It provides unparalleled energy efficiency through a vast HVAC Application Library.

CIPer Model 50 enables uniform graphical operation, control, data logging, alarming, scheduling, and network management functions for HVAC and non-HVAC applications. Through its integrated web server, it allows real-time access to all information through web-based graphical views.

CIPer Model 50 supports full remote engineering, including changes to the control program and the graphical user interface. This greatly supports the reduction of life cycle and maintenance costs.

FEATURES

- **Reduced total installed cost:** Existing standard Ethernet/LAN infrastructure is used for communication between CIPer Model 50 controllers, 3rd-party BACnet® controllers, and BACnet® front-ends. Costs are further reduced by the flexible and optional use of Panel Bus I/Os (which allow manual override independent of the controller, thus eliminating the need for external switches) and of onboard I/Os.

Panel Bus I/Os allow for wiring lengths of up to 2625 ft (800 m), thus eliminating the need to

install a wire from field devices all the way back to the controller.

- **Reduced life cycle cost:** CIPer Model 50 supports the highly reliable Honeywell Panel Bus I/O modules, which allow for plugging and replacing without any need for re-wiring or engineering, thus minimizing system downtime. The Panel Bus is polarity-insensitive, thus reducing potential wiring errors. Furthermore, Panel Bus I/O modules allow the predefinition of output safety positions, ensuring safe operation even if communication with CIPer Model 50 is disrupted.
- **Universal operation:** Via Internet browser, CIPer Model 50 can be operated from any place, from any PC and/or mobile device connected to the (CIPer Model 50) network. Optionally, via the onboard or detached HMI, the controller can be operated independently of any network connection.
- **Vendor independence:** Multiple international communication standards are supported, e.g.: BACnet/IP (ISO 16484-5); BACnet MS/TP (ISO 16484-5); LONWORKS (ISO 14908); Modbus RTU and Modbus TCP; M-Bus (EN 1434-3); oBIX; SNMP; etc.
- **Trending:** Datapoints can be trended and historical values stored and viewed.
- **Reliable control performance:** Embedded QNX ensures reliable, independent, and secure operation, especially for systems with Internet access.
- **Embedded email alarming:** Configurable email alarming options allow alarms to be sent (via network or Internet-DSL connection) to email accounts and thus also to the mobile device using SMTP protocol.
- **Optional SMS alarming:** SMS alarming via GSM modem using the optional SMS driver.
- **HVAC application library:** Enables highly effective application generation for optimal energy-efficient control applications.
- **Flexible mounting options:** Mounting onto a wall or onto panel back wall, into panel door, onto panel rail, and into sub-panels (fuse boxes).
- **Direct 24 VAC power supply:** No batteries, no movable parts – thus does not require regular maintenance.

Ordering Part Numbers

Table 1: Ordering Part Numbers

OS Number (SKU)	Description
WEB-EHSERIESNX26D	CIPer Model 50 PLANT CONTROLLER, with HMI, 26 IO, 100 points, 5 devices
WEB-EHSERIESNX26ND	CIPer Model 50 PLANT CONTROLLER, without HMI, 26 IO, 100 points, 5 devices
WEBSEHN4LIC	CIPer Model 50 Core License with SMA-0005-1YR-INT PIN-0005 - 18 mo Maintenance

License Upgrades

Table 2: License Upgrades

Model	License content/Upgrade license
EAGLEH255PUP	255 Additional Panel-bus Expansion I/O Points
PIN-DEV-UP-1	+50 open points upgrade, +1 Device
PIN-DEV-UP-2	+100 open points, +2 Devices
PIN-DEV-UP-10	+500 open points, +10 Devices
PIN-DEV-UP-25	+1250 open points, +25 Devices
PIN-DEV-UP-50	+2500 open points, +50 Devices

Software Maintenance Agreements

Table 3: Software Maintenance Agreements

Model	License content/Upgrade license
SMA-0005-1YR	PIN-0005 - 1 year maintenance
*SMA-0005-1YR-INIT	PIN-0005 - Initial 18 month maintenance must be purchased in conjunction with the initial Core software. Optional 3 or 5 year maintenance may be substituted.
SMA-0005-3YR	PIN-0005 - 3 year maintenance
SMA-0005-5YR	PIN-0005 - 5 year maintenance
SMA-0010-1YR	PIN-0010 - 1 year maintenance
SMA-0010-1YR-INIT	PIN-0010 - Initial 18 month maintenance must be purchased in conjunction with the initial Core software. Optional 3 or 5 year maintenance may be substituted.
SMA-0010-3YR	PIN-0010 - 3 year maintenance
SMA-0010-5YR	PIN-0010 - 5 year maintenance
SMA-0025-1YR	PIN-0025 - 1 year maintenance
SMA-0025-1YR-INIT	PIN-0025 - Initial 18 month maintenance must be purchased in conjunction with the initial Core software. Optional 3 or 5 year maintenance may be substituted.
SMA-0025-3YR	PIN-0025 - 3 year maintenance
SMA-0025-5YR	PIN-0025 - 5 year maintenance
SMA-0100-1YR	PIN-0100 - 1 year maintenance
SMA-0100-1YR-INIT	PIN-0100 - Initial 18 month maintenance must be purchased in conjunction with the initial Core software. Optional 3 or 5 year maintenance may be substituted.
SMA-0100-3YR	PIN-0100 - 3 year maintenance
SMA-0100-5YR	PIN-0100 - 5 year maintenance

NOTE: *included with the initial purchase of WEBSEHN4LIC

OPERATION IN IP NETWORKS

When operating CIPer Model 50 in IP networks, either private (e.g. VPN) networks must be used or protection against the open Internet (e.g., by means of external firewalls) must be ensured. See Network Security on pg. 5.

OPERATOR INTERFACE

CIPer Model 50 is operated via a standard browser. By default, an integrated web server provides all freely programmable operation pages for full browser-based operation.

Operating devices can be laptops, desktops PCs, or touch screen PCs for direct flush mounting into electrical panel doors (IP65).

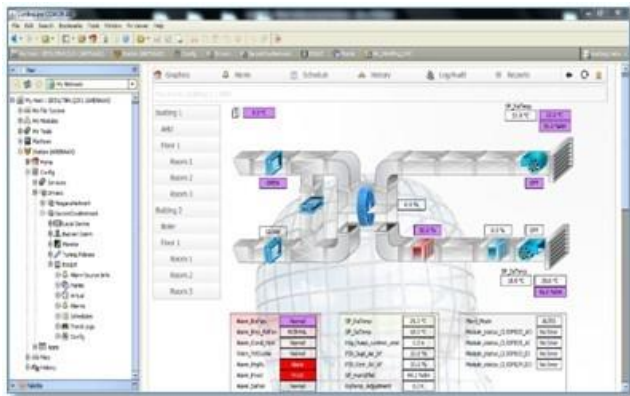


Figure 1: CIPer Model 50 PC homepage (example)

For mobile devices, there is a separate corresponding operator interface.



Figure 2: CIPer Model 50 mobile device homepage (example)

For network-independent operation, the CIPer Model 50 can be operated either via its onboard HMI (option 1) or via an external HMI (option 2) connected to the dedicated HMI port of those models not equipped with an onboard HMI.

The operating menu can be customized to suit the building operator's needs.



Figure 3: XL2000 HMI-A

PROGRAMMING

CIPer Model 50 is freely programmable using the graphics in WEBs-N4 Engineering Tool and is thus ideal for all Integration, Building Control, and Building Management tasks.

PASSWORD PROTECTION

CIPer Model 50 allows the definition of many user levels with defined read and write rights. Several users with individual passwords can be defined for each user level and different views can be assigned to the individual users.

COMMUNICATION PROTOCOLS

BACnet/IP – ISO 16484-5 and EN 13321-1

Communication with other CIPer Model 50, 3rd-party BACnet devices, and WEBs-N4 Supervisors is possible.

CIPer Model 50 conforms to the BACnet Building Controller (B-BC) profile.

BACnet MS/TP–ISO 16484-5 and EN 13321-1

Communication with other BACnet controllers is based on the international BACnet Protocol. Optionally, one or both of the onboard RS485 interfaces can be used for communication via BACnet MS/TP.

LonTalk® - ISO 14908

Optionally, communication with physical I/O modules, with room and zone controllers, and other LON devices.

LONWORKS communication requires the IF-LON2 LONWORKS interface.

MODBUS

Optionally, the two onboard RS485 interfaces can be used (even simultaneously) for communication via Modbus RTU. Modbus TCP communication is supported via the two onboard Ethernet RJ45 interfaces. See also, *CIPer Model 50 Installation & Commissioning Instructions - 31-00233* for details.

M-Bus – EN 1434-3

Optionally, M-Bus communication is possible via the onboard RS232 interface. See also, *CIPer Model 50 Installation & Commissioning Instructions - 31-00233* for details.

PANEL BUS

Optionally, one or both onboard RS485 interfaces can be used for Panel Bus communication with Honeywell Panel Bus I/O modules.

Up to 64 Panel Bus I/O modules can be operated via each RS485 interface, thus permitting 1,000+ Panel Bus / onboard I/O points (see *Table 2: License Upgrades* for information on upgrades).

HTTPS

Secure web browser communication is supported for web access via standard web browsers.

SMTP

Simple Mail Transfer Protocol is used for email alarming via network and Internet-DSL connection.

OPEN NIAGARA DRIVERS

Optionally, all available interfaces can also be used with any open Niagara driver. For example, the KNX driver can be used via the TCP/IP – KNX interface.

BUS AND PORT CONNECTIONS



WARNING

Risk of electric shock or equipment damage

- Do not touch any live parts in the cabinet
- Disconnect the power supply before making connections to or removing connections from terminals of the CIPer Model 50 controller or Panel Bus I/O modules.
- Do not reconnect the power supply until you have completed the installation.
- Due to the risk of short-circuiting (see *Figure 9* on pg. 6), it is strongly recommended that the CIPer Model 50 controller be supplied with power from a dedicated transformer. However, if the CIPer Model 50 controller is to be supplied by the same transformer powering other controllers or devices (e.g., the PW M-Bus Adapter), care must be taken to ensure that correct polarity is observed.
- Observe the rules regarding electrostatic discharge.

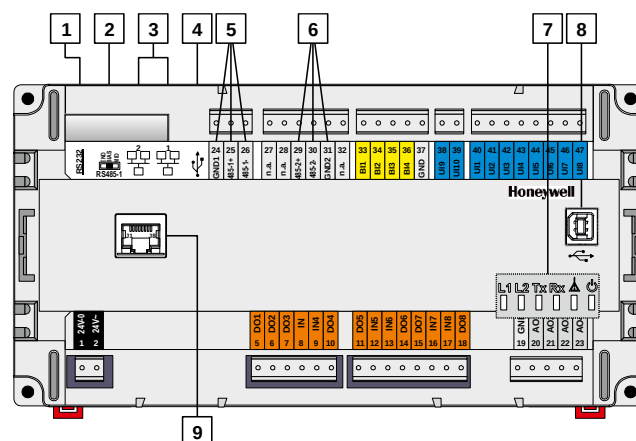


Figure 4: Top view (with HMI and a full complement of onboard I/Os)

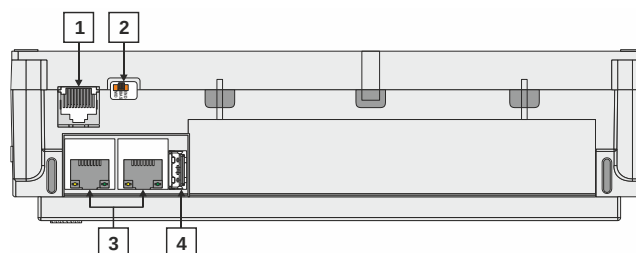


Figure 5: Side view

LEGEND

- 1. RS232 / RJ45 socket (for connection of M-Bus and other RS232-based protocols; factory debugging)
- 2. Three-position slide switch (for setting bias and termination resistance of RS485-1)
- 3. Two Ethernet / RJ45 sockets (for BACnet IP communication); 10/100 Mbit/s; 1 "link" LED + 1 "activity" LED
- 4. USB 2.0 Host Interface (for connection of IF-LON2); max. 200 mA, high speed
- 5. RS485-1* (isolated; for BACnet MS/TP, Panel Bus, Modbus RTU communication, etc.)
- 6. RS485-2* (non-isolated; for BACnet MS/TP, Panel Bus, Modbus RTU communication, etc.)
- 7. LEDs
- 8. USB 2.0 Device Interface (for connection to WEBs-N4 web browsers, and 3rd-party touch panels)

HMI (or RJ45 socket for connection of portable HMI)

*Modbus RTU Master/Slave communication is possible on the two RS485 interfaces.

 WARNING

Risk of electric shock or equipment damage

It is prohibited to connect any of the RJ45 sockets of the CIPer Model 50 controller to a so-called PoE-enabled device ("Power over Ethernet").

M-BUS CONNECTION

The CIPer Model 50 controller supports M-Bus Master functionality via its onboard RS232 / RJ45 socket. It uses standard PW3/PW20/PW60 converters to connect to the M-Bus devices.

Wiring Topology

Max. bus length is 1050 feet. M-Bus devices are connected to the bus cable in parallel.

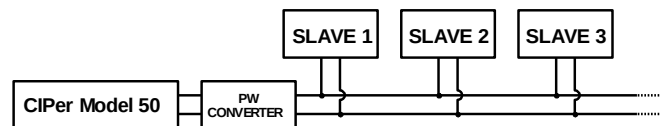


Figure 6: Allowed M-Bus wiring topology

Cables

See section "M-Bus Connection" in *CIPer Model 50 Installation & Commissioning Instructions - 31-00233*. Use shielded, twisted pair cable Honeywell cable 3322 or 3251.

Shielding

Shielding is especially recommended when the M-Bus cable is installed in areas with expected or actual electromagnetic noise. Avoiding such areas is to be preferred.

Use shielded, twisted pair cable Honeywell cable 3322 or 3251 and connect the shield to noise-free earth ground – only once per M-Bus connection.

M-Bus Repeaters

The M-Bus can be extended to 3,000 feet, depending on the communication rate, and provided that the electrical limitations are observed. For details refer to the *CIPer Model 50 Installation & Commissioning Instructions - 31-00233*.

For bus length extension, M-Bus repeaters can be used, but have not been tested by Honeywell. Hence, it is the responsibility of the installing / commissioning personnel to ensure proper functioning.

M-BUS MASTER SPECIFICATIONS

For a detailed description of the M-Bus functionality, please refer to the *M-Bus Online Help*.

Physical Layer

RS232 to PW3/PW20/PW60

Physical connector: RS232 / RJ45 socket (see *Figure 5* on pg.3)

Cable order number: TECHTOO USB 3.0 YIOWOM DB9 Breakout Connector

Communication rates: 300, 2,400, and 9,600 bps are supported, individually per M-Bus slave.

Max. no. of devices: 60 (excluding the CIPer Model 50 controller)

Cable and wiring specifications: See *CIPer Model 50 Installation & Commissioning Instructions - 31-00233*.

Address Range

M-Bus slaves can have a primary address between 1 and 250.

Measurement Cycle

Individually per M-Bus slave, the measurement cycle can be configured from 1 to 604,800 sec (i.e. 1 second to 7 days).

MODBUS CONNECTION

The CIPer Model 50 controller can function as a Modbus Master/Slave.

For Modbus RTU, the RS485 wiring rules must be followed.

WIRING TOPOLOGY

Only daisy-chain wiring topology is allowed.

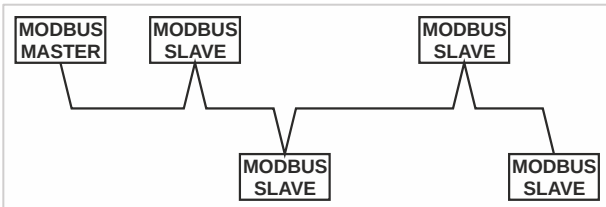


Figure 7: Allowed Modbus wiring topology

Other wiring topologies (e.g., star wiring, or mixed star wiring and daisy chain wiring) are prohibited; this is to avoid communication problems of the physical layer.

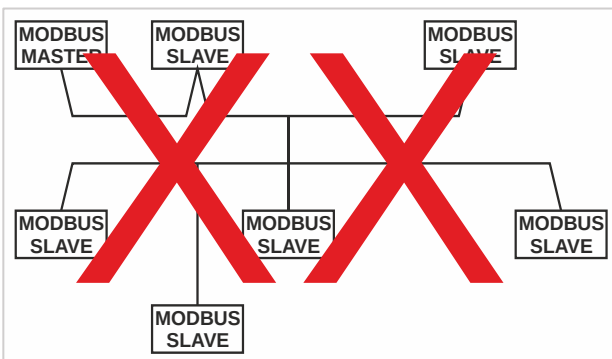


Figure 8: Prohibited Modbus wiring topology (example)

Cables

See section "EIA 485 Cable Specifications" in *CIPer Model 50 Installation & Commissioning Instructions - 31-00233*.

Use shielded, twisted pair cable Honeywell cable 3322 or 3251.

You **must** use three wires:

- One wire for D1 = Modbus +
- One wire for D0 = Modbus –
- One wire for the signal common

When using one pair for D1 and D0 and one wire of another pair for the signal common, a CAT5 cable may also be used.

For connection details, see also *CIPer Model 50 Installation & Commissioning Instructions - 31-00233*.

Shielding

Shielding is especially recommended when the Modbus cable is installed in areas with expected or actual electromagnetic noise. Avoiding such areas is to be preferred.

Use shielded, twisted pair cable Honeywell cable 3322 or 3251 and connect the shield to a noise-free earth ground, only once per Modbus connection.

Modbus Specifications

For Modbus RTU and TCP specifications, refer to *docModbus* found in the docs directory of the WEBStation-N4.x.x installation.



WARNING

NETWORK SECURITY

Honeywell hereby expressly states that the CIPer Model 50 is not inherently protected against cyber-attacks from the Internet and that it is therefore intended solely for use in private, protected networks.

Unprotected Internet connections can expose the controller to cyber-attacks from third parties who can then damage it and connected facility components or cause them to malfunction, or who can misuse it for illegal purposes for which the operator may then be held liable.

When directly connected to the Internet, the CIPer Model 50 automatically becomes a potential target for cyber-attacks. Corresponding protective measures are therefore essential if a safe and reliable operation is to be ensured.

If it is not necessary for the CIPer Model 50 to be accessible from the Internet, the CIPer Model 50 should be isolated from the Internet via a suitable firewall.

If it is necessary for the CIPer Model 50 to be accessible from the Internet (e.g., in order to perform remote maintenance), the use of a coded VPN connection is indispensable. Suitable VPN routers are available from numerous third-party manufacturers in a wide variety of designs, for operation at 230 V or 24 V.

CONTROLLER SPECIFICATION

GENERAL

Table 4: Controller specifications

Ambient temperature	32..104°F (0...40°C), wall-mounting 32..122°F (0...50°C), cabinet/door mounting
Storage temperature	-4 ... +158 °F (-20...70°C)
Humidity	5 ... 95% r.h. non-condensing
Dimensions	See <i>Figure 10</i> and <i>Figure 11</i> on pg. 10.
Degree of protection	IP20 (mounted on walls, with two accessory MVC-80-AC1 covers) IP30 (mounted in cabinet doors, with accessory MVC-80-AC2)
Fire class	V0
Shock protection	Class II
Pollution degree	2
Installation	Class 3
Rated impulse voltage	330 V for SELV, 2500 V for relay outputs
Overvoltage category	II
Automatic action	Type 1.C
Software class	Class A
Ball-pressure test temperature	housing parts > 167 °F (75°C) terminals > 257 °F (125°C)

ELECTRICAL DATA

Table 5. Electrical data

Power supply	19 ... 29 VAC, 50/60 Hz, or 20 ... 30 VDC
Power consumption	DC: 7 W (max. 9 W) AC: 10 VA (max. 12 VA)
Heat dissipation	Max. 9 W at DC power supply Max. 9 W at AC power supply
Current consumption	DC: 300 mA (max. 375 mA) AC: 400 mA (max. 500 mA)

Due to the risk of short-circuiting (see *Figure 9*), it is strongly recommended that the CIPer Model 50 controller be supplied with power from a dedicated transformer. However, if the CIPer Model 50 controller is to be supplied by the same

transformer powering other controllers or devices (e.g., the PW M-Bus Adapter), care must be taken to ensure that correct polarity is observed.

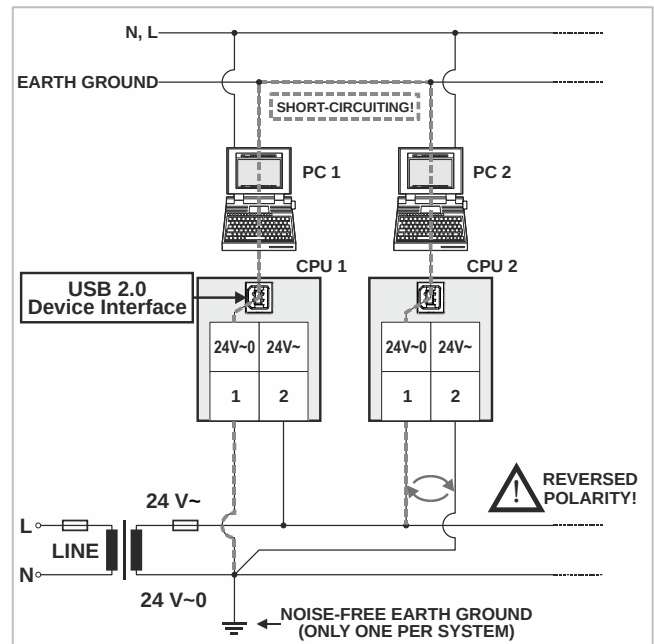


Figure 9: Incorrect polarity → SHORT-CIRCUITING

MECHANICAL DATA

Table 6. Mechanical data

Housing Dimensions (L x B x T)	8.5 x 4.3 x 2.4 inches (215.5 x 110 x 61 mm)
Housing Material:	ABS blend; flame retardant V0
Weight:	0.88lb (400 g) without packaging
Protection Class:	IP 20

CPU

Processor	NXP i.MX 6SoloX 32-bit dual core processor with 1 GHz Arm® Cortex®-A9 core and 227 MHz Arm Cortex-M4 core
Operating System	QNX
Memory	1 GB DDR3-RAM 512 KB MRAM 4 GB Flash Memory
Real-Time Clock	- Accuracy: ± 2 minutes per year (at typically, 77°F (25°C)) - Buffered typically for 72 h by gold capacitor

STANDARDS APPROVALS

- The device meets EN 60730-1, EN 60730-2-9, UL60730, and UL916.
- The device complies with Ethernet Protocol versions IEEE 802.3.
- The device supports BACnet IP and BACnet MS/TP communications as per ANSI / ASHRAE 135-2012.

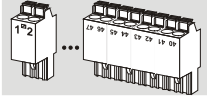
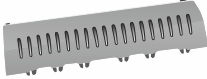
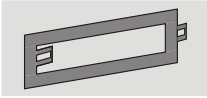
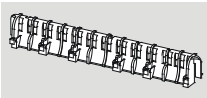
MOUNTING

The CIPer Model 50 controller is suitable for mounting as follows:

- In cabinets
- In fuse boxes conforming with standard DIN43880, and having a slot height of max. 45mm
- On walls (using accessory MVC-80-AC1 covers)
- in cabinet front doors (using accessory MVC-80-AC2)

ADDITIONAL PARTS

Table 7. Additional Parts

	Order no.	Description
	XS830	Set of ten terminals. Each package consists of two groups of nine internally connected push-in terminals, for distributing signals/power.
	XS831	Set of ten terminals. Each package consists of two groups of four pairs of push-in terminals (each with a 499 Ω resistor), for converting 0...20 mA signals into 0...10 VDC signals, and one push-in ground terminal per group.
	TPU-11-01	Removable terminal plugs, push-in type; a complete set of 3 plugs (for terminals 1, 2, 24-32) for the WEB-EHSERIESNX26.
	TPU-45-01	Removable terminal plugs, push-in type; a complete set of 9 plugs (for terminals 1 - 47) for the WEB-EHSERIESNX26.
	MVC-80-AC1	Terminal cover (color: RAL9011); package of ten.
	MVC-80-AC2	Front door mounting accessory (color: RAL9011) package of ten.
	MVC-40-AC3	Strain relief; package of ten.
Pluggable Panel Bus I/O Modules		
	XF821A	Pluggable Panel Bus Analog Input Module (with 8 analog inputs)

	XF822A	Pluggable Panel Bus Analog Output Module (with 8 analog outputs)
	XF823A	Pluggable Panel Bus Binary Input Module (with 12 binary inputs)
	XF824A	Pluggable Panel Bus Relay Output Module (with 6 relay outputs)
Mixed Panel Bus I/O Modules with integrated socket		
	XF830A	Mixed Panel Bus I/O Module (with 8 analog inputs, 8 analog outputs, 12 binary inputs, and 6 relay outputs), with push-in terminals (incl. bridge connector and swivel label); housing matches XL800 design
	XFU830A	Mixed Panel Bus I/O Module (with 8 analog inputs, 8 analog outputs, 12 binary inputs, and 6 relay outputs), with screw terminals (incl. bridge connector and swivel label); housing matches XL800 design
Terminal Sockets (not needed for the mixed I/O modules XF830A and XFU830A)		
	XS821-22	Push-in terminal socket for pluggable AI/AO modules (incl. bridge connector, swivel label)
	XSU821-22	Screw-type terminal socket for pluggable AI/AO modules (incl. bridge connector, swivel label)
	XS823	Push-in terminal socket for pluggable BI modules (incl. bridge connector, swivel label)
	XSU823	Screw-type terminal socket for pluggable BI modules (incl. bridge connector, swivel label)
	XS824-25	Push-in terminal socket for pluggable relay/floating output modules (incl. bridge connector, cross connector, swivel label)
	XSU824-25	Screw-type terminal socket for pluggable relay/floating output modules (incl. bridge connector, cross connector, swivel label)

MODELS

Table 8. Overview of Models (hardware)

Feature	Description	Max. cable length	Order No.	
			Without HMI	With HMI
			WEB-EH SERIESNX26 ND	WEB-EH SERIESNX26D
UI*	NTC10k Ω (Type II) / NTC20k Ω (Type II) / 0...10V / slow BI, 0.4 Hz	1200 ft (366 m)	8	8
	NTC10k Ω (Type II) / NTC20k Ω (Type II) / 0...10V fix pull-up / slow BI, 0.4 Hz	1200 ft (366 m)	2	2
BI	open = 24 V / closed 2.0 mA / totalizer 15 Hz	1200 ft (366 m)	4	4
AO	0...11 V (max. 1 mA)	1200 ft (366 m)	4	4
BO	Relay N.O. contact: 3 A, 250 VAC, 30 VDC	1200 ft (366 m)	4	4
	Relay N.O. contact (high in-rush): 10 A, 250 VAC, 30 VDC	1200 ft (366 m)	1	1
	Relay N.O. contact with one common: 3 A, 250 VAC, 30 VDC	1200 ft (366 m)	3	3
Total I/Os		--	26	26
Bus interfaces	RS485-1, isolated, BACnet MS/TP, Panel Bus, or Modbus RTU Master or Slave communication	¹⁾ 3600 ft (1097 m)	1	1
	RS485-2, non-isolated, BACnet MS/TP, Panel Bus, or Modbus RTU Master or Slave communication (NOTE: It is imperative that the RS485-2 be powered by a power supply having the proper polarity. Failure to do so will make data transmission impossible.)	¹⁾ 3600 ft (1097 m)	1	1
	Ethernet Interfaces (email communication, browser access, BACnet IP communication, Niagara Network, Modbus TCP)	300 ft (91.44 m)	2	2
	USB 2.0 Device Interface (as Network Interface)	9 ft (2.74 m)	1	1
	USB 2.0 Host Interface (max. 200 mA)	9 ft (2.74 m)	1	1
	RS232 M-Bus communication via 45-foot-long PW3 / PW20 / PW60 converters	¹⁾ 3600 ft (1097 m)	1	1
LEDs	power LED (green)	--	1	1
	status LED (red; indicates an active alarm; is controlled by Niagara Alarm System; is configurable)	--	1	1
	LED L1 (yellow; lit = Daemon starting; flashing = station starting; if L2 is also flashing, then the station has started)	--	1	1

Feature	Description	Max. cable length	Order No.	
			Without HMI	With HMI
			WEB-EH SERIESNX26 ND	WEB-EH SERIESNX26D
	LED L2 (yellow; lit = platform has started / is reachable; flashing = station has started / is reachable)	--	1	1
	bus status LEDs (for isolated RS485-1 interface)	--	2	2

¹⁾ Depending upon bit rate. However, in the case of the configuration of RS485-2 for Panel Bus, the communication rate is set to 115.2 kbps, and the max. cable length is hence 2400 ft (731.52 m).

* Other supported sensor types are: NI1000 TK6180 DIN, NI1000 TK5000 DIN, PT1000-1, PT1000-2, BALCO500. Refer to CIPer Model 50 Controller – Installation and Commissioning Instructions 31-00233, for more details.

DIMENSIONS

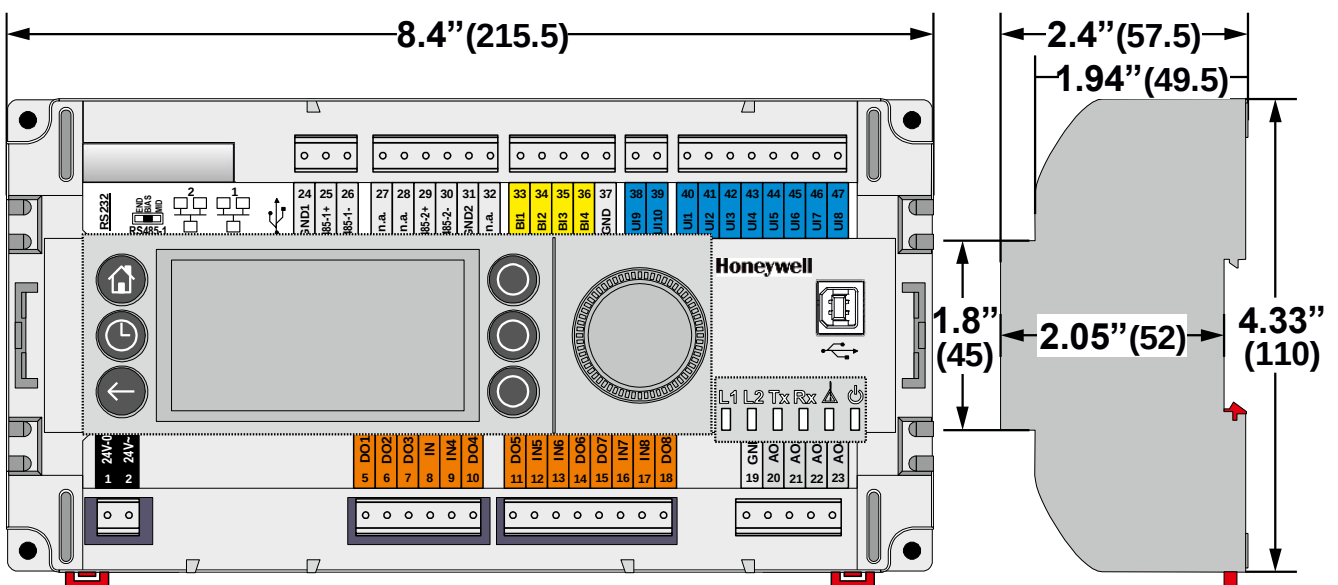


Figure 10: CIPer Model 50 controller (w/o HMI but with RJ45 socket for connection of portable HMI, and with the full complement of onboard I/Os), dimensions inches (mm)

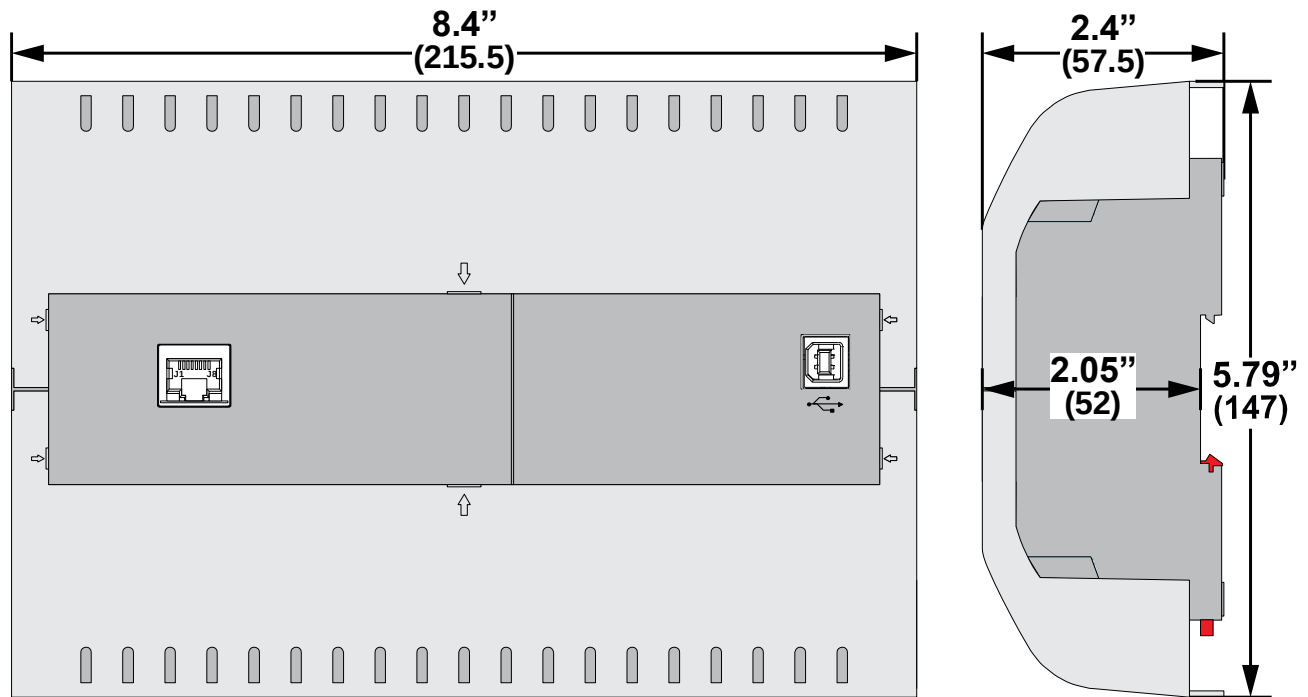


Figure 11: CIPer Model 50 controller with covers, dimensions inches (mm)

NOTE: Use of the covers (MVC-80-AC1) will obstruct access to the Ethernet, USB 2.0, and RS232 interfaces.

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