CommLink 5

ASM01874   ALT-REF number OE361-13

Description

The CommLink 5 Communications Interface allows computer access into the AAON controls system and also provides communications across multiple local communications loops on the control system.

The CommLink 5 comes packaged in an attractive beige colored plastic enclosure. The CommLink 5 is powered by a small plug-in transformer that is included.

Locally, an on-site personal computer with Prism 2 software installed may be connected to the CommLink 5 to provide direct access to system control parameters. A USB cable (6 ft. long) is provided with the CommLink 5 for connection to your computer.

An optional IP Module Kit, when installed and configured in the CommLink 5 communication interface, provides TCP IP Internet and/or intranet connection for Ethernet networked computer systems, allowing them to communicate with your control system. The IP Module Kit consists of the IP Module and a 10 ft. long CAT5 Ethernet crossover cable.

Using standard TCP/IP Protocol with Prism 2 software, you are able to monitor and configure your controllers without a modem or a direct connection from a PC. Utilizing existing routers, proxies, or firewalls allows a PC running Prism 2 to connect to a controller in a remote accessible location or building. Several IP connection profiles can be created to facilitate monitoring several CommLink 5's with IP Module Kits installed on individual sites.

Front View

Back View

Mounting

If an on-site computer is to be used for direct connection and monitoring of the system, the CommLink 5 should be located near the computer terminal to monitor the system.
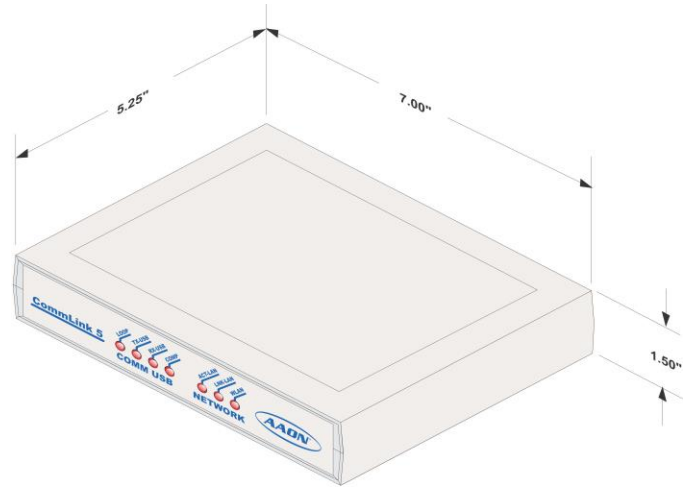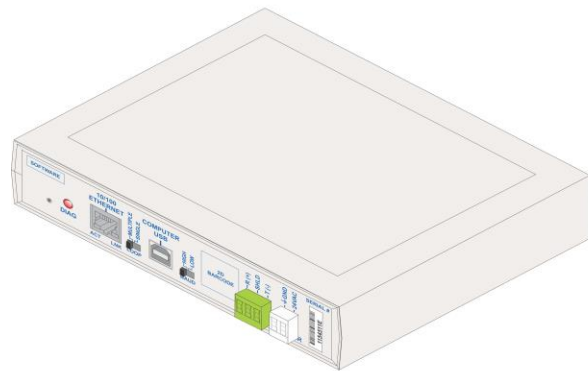
Technical Data		CommLink 5 Communication Interface	
Power	18-30 Volt AC	*Ethernet Conn.	RJ-45 Ethernet Port
Plug-in Transformer	120V to 24VAC (Included)	Local Loop	RS-485 – 9600 Baud
Power Consumption	14 VA Maximum	Network Loop	RS-485 –19,200 or 57,600 Baud
Operating Temperature	10°F to 140°F	Protocol	HSI Open Protocol Token Passing
Operating Humidity	0-95% RH Non-Condensing	Cabling Included	(1) 6 Ft. Long USB Cable
Computer Conn.	USB Version 1.1 or 2.0		
One Year Warranty		AAON reserves the right to change specifications without notice	

IP Module Kit

ASM01902 ALT-REF number OE415-02

1.28"

1.34"

IP Module

Description

The IP Module Kit (when installed and configured in CommLink 5 communication interface) provides TCP/IP Internet and/or intranet connection for Ethernet networked computer systems allowing them to communicate with your control system. The IP Module Kit consists of the IP Module and a 10 ft. long CAT5 Ethernet crossover cable.

The IP Module plugs into a mating 40 pin (2 x 20) connector located on the CommLink's circuit board. Installation is easily accomplished by removing the CommLink's case cover screws, removing the case cover to access the circuit board, and then plugging the IP Module into its mating socket connector. Correct alignment is made easy because of the (4) slot alignment tabs located around the perimeter of the processor base. It is not possible to incorrectly align the IP Module to the socket connector because of this feature.

The TCP/IP connection provided by the IP Module installed in the CommLink is a TCP connection on a single port number and is static in nature. Firewall and proxy servers can easily be configured to allow traffic to and from the CommLink when the IP Module is installed. The nature of the data is raw in form and comprised of packets native to Prism 2 software. The IP Module will respond to ICMP traffic (PING) for verification of proper configuration. Prism 2 software is required in order to read and send data to the IP Module and through the CommLink to the control system.
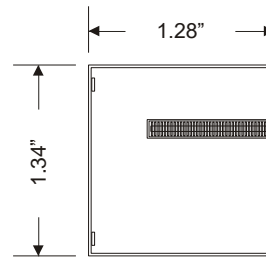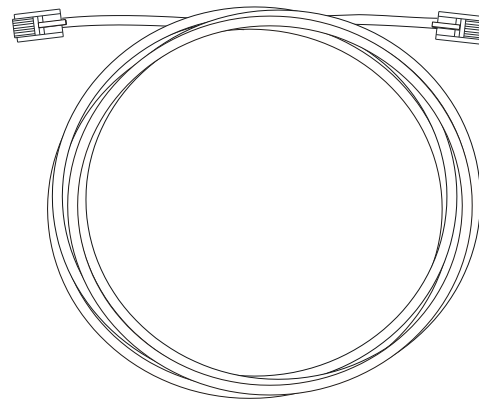
CAT5 Ethernet Cable

The IP Module connects to the host Ethernet system by means of the supplied 10 ft. long CAT 5 Ethernet crossover cable which plugs into the 10/100 Base-T, RJ-45 jack on the back of the CommLink and into an Ethernet router or Ethernet modem on your building's LAN. Setup of the CommLink with the IP Module requires a knowledgeable IT person familiar with configuring network adapters and TCP/IP systems. Prism 2 software must be installed on the local LAN computer(s) and/or remote Internet computers that will be used to program and monitor the control system.

Technical Data		IP Module Kit	
Operating Temperature	10°F to 140°F	Media Access	CSMA/CD with ACK
Operating Humidity	0-95% RH Non-Condensing	Network Connection	10/100 Base-T Ethernet RJ-45 MDI Socket
Protocols Supported	ARP, UDP, TCP, Telnet, ICMP, SNMP, DHCP, BOOTP, Auto IP, HTTP, SMTP, TFTP	Flow Control	XON/XOFF (Software), CTS/RTS (Hardware), None
Network Interface	IEEE 802.3 RJ45 Ethernet 10BASE-T Or 100BASE-TX (Auto-sensing)	Management	Internal Web Server, SNMP (Read Only), Serial Login, Telnet Login, Device Installer Software
One Year Warranty		AAON reserves the right to change specifications without notice	

USB-Link 2

ASM02244 ALT-REF number OE366

Female 6 Pin Mini-DIN Connector
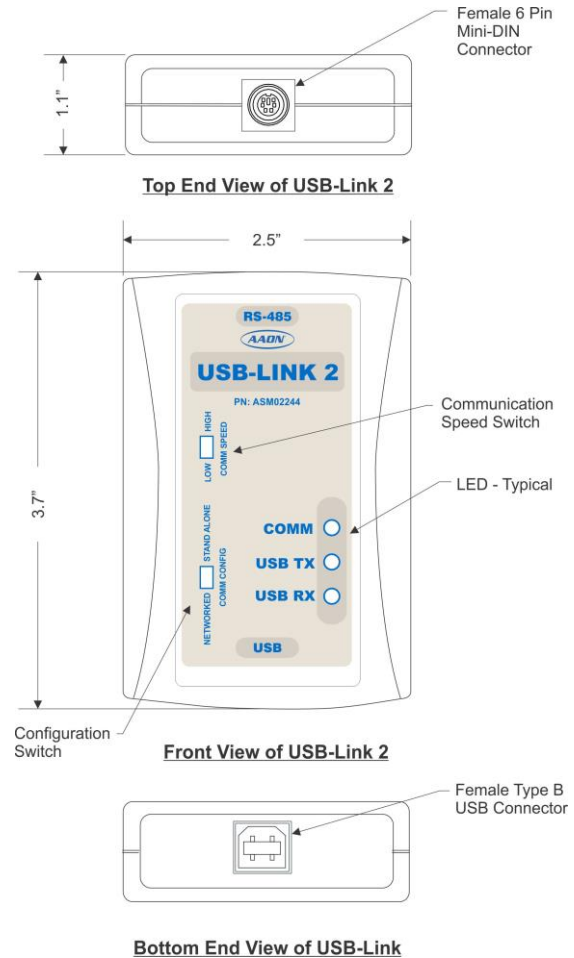
1.1"

Top End View of USB-Link 2

Description

The USB-Link 2 allows computer access into the AAON controls system and also provides communications across multiple local communications loops on the control system when a CommLink 5 Communications Interface is installed on the system.

The USB-Link 2 provides a direct link to enable the system operator to view the status and to configure and adjust the setpoints of any controller on the control system communications loop using the Prism 2 computer front end software.

The USB-Link 2 is small in size and is self-powered by the USB port of the computer it is plugged into, making it completely portable and allowing connection to the system from any controller.

The USB-Link 2 is supplied with a USB cable, a mini-DIN male communication cable, and two mini-DIN to terminal adapters. The communication cable allows the user to walk up to any controller that has a communication socket and plug in the USB-Link to gain access to the system. The adapters are used for boards that do not have a female mini-DIN plug connection.

To use the USB-Link 2, you will need a Windows®-based computer/laptop with an available USB 1.1 or 2.0 port with the included USB drivers installed. You will also need the Prism 2 computer front end software installed on the Windows® 10 computer/laptop.

2.5"

3.7"

RS-485

USB-LINK 2

PN: ASM02244

COMM SPEED — HIGH / LOW

COMM CONFIG — STAND ALONE / NETWORKED

COMM
USB TX
USB RX

USB

Communication Speed Switch

LED - Typical

Configuration Switch

Front View of USB-Link 2

Female Type B USB Connector

Bottom End View of USB-Link

Technical Data		USB-Link 2	
Operating Temperature	10°F to 140°F	Cabling Included	(1) 6 Ft. Long USB Cable and (1) 7 Ft. Long Communications Cable
Operating Humidity	0-95% RH Non-Condensing	Communications	RS-485 – 9600 to 115,000 Baud
Computer Connection	USB Version 1.1 or 2.0	Adapters Included	Mini-DIN Plug Adapters
One Year Warranty		**AAON reserves the right to change specifications without notice**	

Windows® 10 is a registered trademark of Microsoft Corporation.

MiniLink PD 5

ASM01626 ALT-REF number OE364-23-OR

Description

The MiniLink PD 5 is a communications device that is used to integrate multiple local communication loops into a network communications system. The MiniLink PD 5 is required on the AAON control system to separate local loops. Up to 60 MiniLink loops can be on a system.

Network loop terminals of the MiniLink Polling Device are designed to be connected to the CommLink and then to other MiniLinks on the network communications loop and are daisy-chained to the CommLink. Local loop terminals of the MiniLink Polling Device are designed to be connected to controllers installed on the local communications loop.

Modular communication cables can be used as an alternative method to connect to the network loop and to the local loop.

The MiniLink Polling Device is required for VAV systems to allow information to be shared between the VAV unit controller and the AAON systems to facilitate voting of the zones to determine the HVAC units heating and cooling mode of operation. It also provides tenant-logging capabilities.

The MiniLink Polling Device utilizes token passing communication architecture. The MiniLink Polling Device is designed to serve as the local communications loop master. This means that it is responsible for sending the token to all the controllers on the local communications loop. Network communications are of the RS-485 type operating at 19,200 or 115,200 baud. Local communications are also of the RS-485 type and operate at 9,600 or 57,600 baud. Dipswitches 7 & 8 are used for baud rate speed selection.

Mounting

The MiniLink Polling Device is housed in a plastic enclosure. It is designed to be mounted by using the 3 mounting holes in the enclosure base. It is important to mount the device in a location that is free from extreme high or low temperatures, moisture, dust, and dirt. Be careful not to damage the electronic components when mounting the MiniLink PD 5.
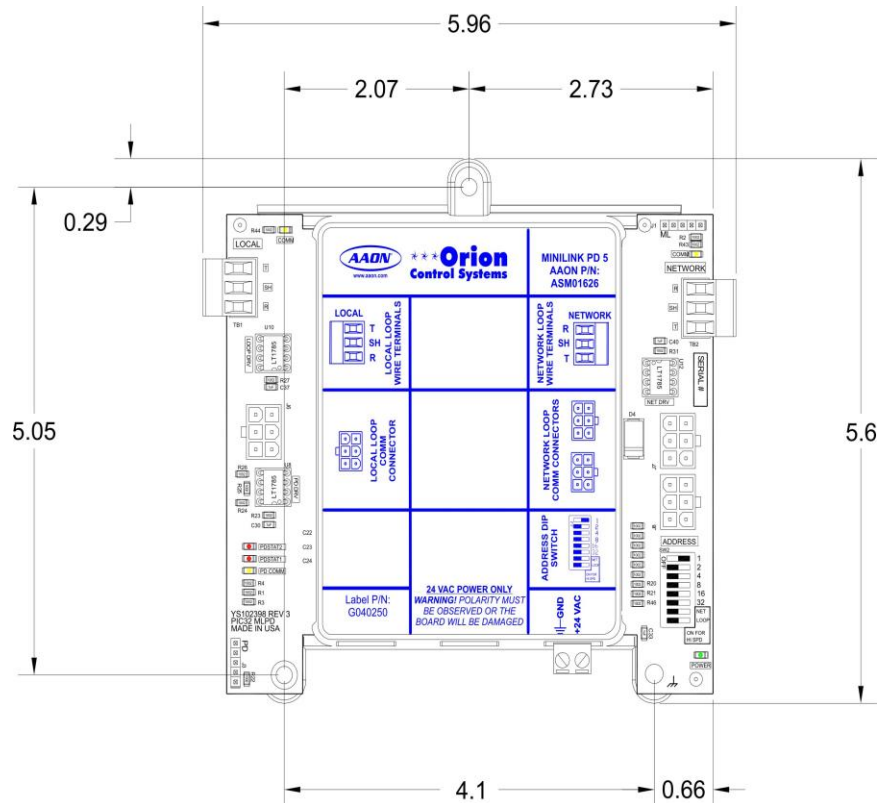
Technical Data		MiniLink 5 Polling Device	
Power	18-30 Volt AC	Protocol	HSI Open Protocol Token Passing
Power Consumption	6 VA Maximum	Weight	1 Lb.
Operating Temp	10°F to 149°F	Network Loop Communications	RS-485 at 19,200 and 115,200 Baud Network
Operating Humidity	0-95% RH Non-Condensing		
Local Loop Communications	RS-485 at 9600 and 57,600 Baud		
One Year Warranty		**AAON reserves the right to change specifications without notice**	

Prism 2 Graphical Computer Front End Software

ASM02533 ALT-REF numbers ASM02249 & OE508

Description

Prism 2 is a complete Windows® based graphical interface that allows you to interact with most AAON digital controls systems. The program provides standard, easy-to-understand status, setpoint, and configuration screens for each type of controller and has provisions for custom screens which allow floor plans, equipment photos, or user defined summary screens. Prism 2 allows you to access and control schedules, trend logs, and alarm conditions. The program can be configured for direct on-site installation or TCP/IP Internet connection.

USB DRIVE PRISM 2
ASM02533 Ver.X.X.X

Features

- Easy to use
- On-site or TCP/IP communications
- User-programmable description for every piece of equipment and user-defined custom screens
- Automatic retrieval of trend logs and export capability to spreadsheet and database programs
- Alarm Logs maintained on disk and Alarm E-mail capability
- Encrypted History Logs

System Requirements

To use Prism 2, you must have a computer that meets or exceeds the following requirements:

Operating System

- Microsoft® Windows® 10
  NOTE: Prism 2 is not intended for a client/server environment nor for any version of Windows® Server.

Minimum Hardware

- Windows® compatible computer
- CommLink 5 or USB Link 2 for direct, on-site connection
- IP Module for remote connection
- **Prism is NOT supported in a server environment. It does not support client/server systems. Prism is a LAPTOP/DESKTOP ONLY system.**

Prism 2 is available on a flash drive or can be downloaded for free from the AAON web site at www.aaon.com/prism. Prism 2 does not require any license agreement and may be freely copied and distributed.

WARNING: Older operating systems, while they still might be capable of running Prism, are not recommended due to security updates being obsoleted by Microsoft®. We also do not support troubleshooting of any version of Windows® operating the Prism program. Some new models of laptops running the latest release of Windows® 10 have also experienced issues running Prism, and we cannot troubleshoot customer computer issues.

Windows® 10 is a registered trademark of Microsoft Corporation.

System Manager TS-L
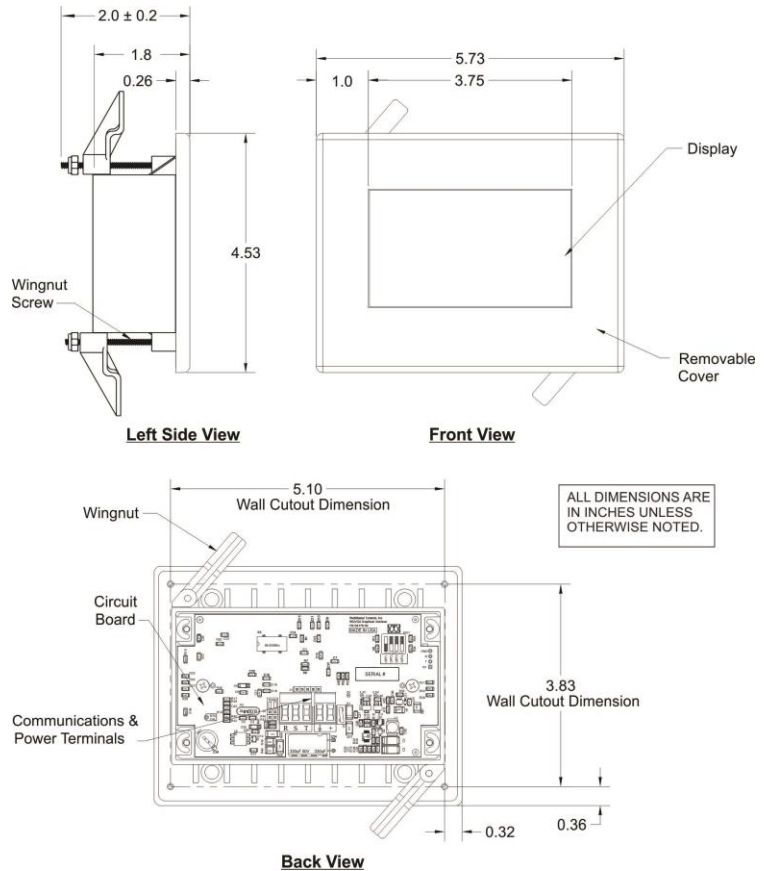
ASM01900   ALT-REF number OE392-11

Description

The System Manager TS-L (Limited Access) – (SMTS-L) is an end-user system interface that provides a graphic-enhanced, menu-driven link to allow the system operator to change space setpoints and schedules and to view certain status points and alarms of the following Orion system controllers:

- VCCX2 Controller
- VCC-X Controller
- VCB-X Controller
- VCM-X E-BUS Series Controller
- VAV/Zone Controller
- MiniLink PD

The SMTS-L is equipped with a 4.3" 480 x 272 WQVGA RGB TFT LCD Touch Screen Display. The SMTS-L utilizes a graphical touch screen menu system with easy-to-understand menu options that provide the user with easy setup and operation without the need for specialized training. Protection from unauthorized users is provided by the SMTS-L's integral passcode authorization.

The SMTS-L is connected to the local communications loop of the Orion system via 18 AWG 2-conductor, twisted pair wire with shield wire connected to the T, SHLD & R communications terminals on the back of the SMTS-L. The communications wire used can be either AAON #G038140 communications wire or Belden #82760 wire or its equivalent. The SMTS-L also requires that 24 VAC (6 VA) power be supplied (by others) to its + and – wiring terminal located on the back of the SMTS-L.

Left Side View   Front View

Back View

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

Mounting

The SMTS-L is housed in a plastic enclosure designed for mounting in hollow drywall construction with the flush mount version (shown) or on a concrete, brick or other solid wall surface with the surface mount version (optional). The flush mount version has integral wing nut paddles that are tightened after installation to grip the drywall and hold the SMTS-L in place. The surface mount version is designed to be installed to a double duplex outlet box (by others). Both mounting styles of the SMTS-L feature an integral magnetically-secured face plate which can be easily removed for reset of the display when required. The SMTS-L should be mounted at approximately eye level to allow for ease of programming and reading of the display. The SMTS-L is typically mounted in the building manager's or superintendent's office or in an equipment room.

Technical Data			System Manager TS-L
Display	4.3" 480x272 WQVGA RGB TFT LCD Touch Screen Display w/ 16 million	Communication Connection	RS-485
Power Supply	24 VAC Single 60 Hz	Protocol	HSI Open Protocol Token Passing
Power Consumption	6 VA Maximum	Housing Material	Plastic
Operating Temp	14°F to 158°F	Communications	Isolated RS-485
Operating Humidity	Less than 95% RH Non-Condensing	User Interface Method	LCD Touch Screen
One Year Warranty		AAON reserves the right to change specifications without notice	

Heating & Cooling Products

# Service Tool with SD Card

ASM01895 ALT-REF number OE391-12

Description

The Modular Service Tool SD is a system interface that provides a direct link to enable the system operator to view the status, configure, and adjust the setpoints of the following AAON controllers:

- VCCX2 Controller
- VCC-X Controller
- Pioneer Silver Controller
- VCB-X Controller
- VCM-X E-BUS Series Controller
- VCM-X Series Controller
- RNE Controller
- SA E-BUS Controller
- VCM Controller
- VAV/CAV Controller
- MUA II Controller
- VAV/Zone Controller
- MiniLink PD

The Modular Service Tool SD is housed in a black plastic enclosure. The display area is covered with a clear plastic bezel for protection of the display screen. The Modular Service Tool SD has a four line by 20-character display panel with adjustable contrast control and a 27 key membrane keypad for data selection and entry. All keypad operations are simple and straight forward, utilizing non-cryptic plain English language messages. Menu-driven programming allows for easy setup and operation without the need for specialized training.

The Modular Service Tool SD is supplied with a programmable 4 Gigabyte SD memory card, with (4) AA 1.5 V batteries, a wall mount DC power supply, a mini-Din communication cable, and an E-BUS communication cable. The mini-Din cable allows you to connect the Modular Service Tool to any Orion controller which has a mini-Din connector socket for programming, monitoring, and troubleshooting purposes.
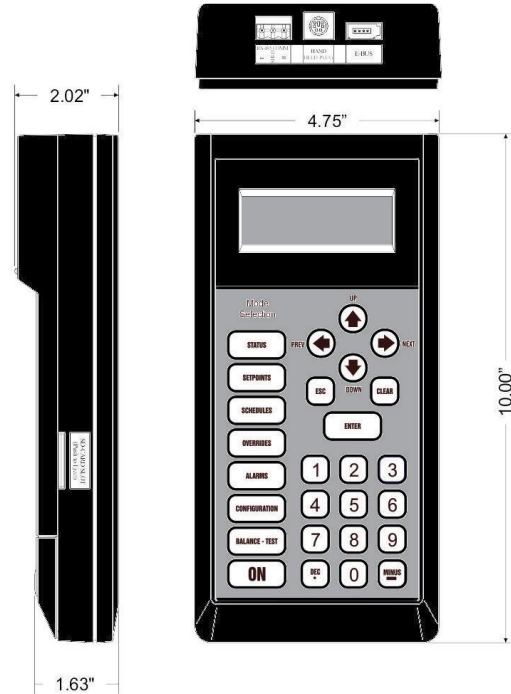
The Modular Service Tool is also equipped with an EBC E-BUS port and an RS-485 three conductor terminal block port. The E-BUS port and included E-BUS cable are used for updating E-BUS Module software. The RS-485 port is used for hard-wiring to the VAV/Zone Controller and older controllers that do not have a mini-DIN connector socket.

The Modular Service Tool SD is designed to be carried by the system installer or service technician. Its rugged plastic housing provides superior protection for the electronic components housed inside. The Modular Service Tool SD is a top quality service tool that will stand up to the demands of the typical job site for many years.

| Technical Data		Modular Service Tool SD	
Power	(4) AA (1.5V) Batteries Supplied	Display	4 Line by 20 Character
Power Switch	Membrane Switch	Network	RS-485
Operating Temp	10°F to 149°F	Protocol	HSI Open Protocol Token Passing
Operating	0-95% RH Non-Condensing	Color	Black
Keypad	27 Key Membrane Style	Communications	RS-485 9600 or 57,600 Baud
SD Memory Card	Programmable 4 Gigabyte	Connections	RS-485 and EBC E-BUS Ports
One Year Warranty		AAON reserves the right to change specifications without notice	

Modular System Manager SD

ASM01901   ALT-REF number OE392-12

Description

The Modular System Manager SD is a system interface that provides a direct link to enable the system operator to view the status, configure, and adjust the setpoints of the following controllers:

- VCCX2 Controller
- VCC-X Controller
- VCB-X Controller
- VCM-X E-BUS Series Controller
- VCM-X Series Controller
- RNE Controller
- SA E-BUS Controller
- VCM Controller
- VAV/CAV Controller
- MUA II Controller
- VAV/Zone Controller
- MiniLink PD

The Modular System Manager SD is housed in a beige-colored plastic enclosure. The Modular System Manager SD has a programmable 4 Gigabyte SD card and is equipped with a four line by 20 character backlighted display panel and a 24 key membrane keypad for data selection and entry. All keypad operations are simple and straight forward, utilizing non-cryptic plain English language messages. Menu-driven programming allows for easy setup and operation without the need for specialized training. The Modular System Manager SD also has 2 integral LEDs for user-notification of system alarm conditions and override initiations. Protection from unauthorized users is provided by the System Manager's integral multi-level passcode authorization programming.
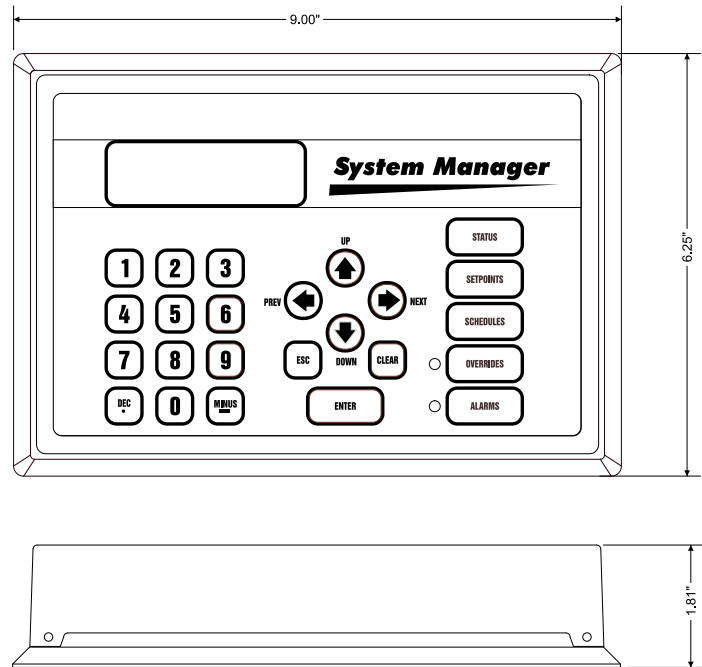
The Modular System Manager SD is connected to the communications and power loop of the system via modular cables that simply plug into the System Manager board. This virtually eliminates wiring errors and makes installation fast and easy. Alternatively, the Modular System Manager SD includes terminal blocks for power and communications.

Mounting

The Modular System Manager is designed for wall mounting. Mounting holes are provided to attach the Modular System Manager to a standard handy box. It is recommended that the System Manager be mounted at approximately eye level to allow for ease of programming and reading of the display. The System Manager is typically mounted in the building manager or superintendent's office or in an equipment room. The attractive enclosure is quite suitable for mounting in any location or with most decors.

Technical Data		Modular System Manager SD	
Power	18-30 Volt AC/DC	Display	4 Line by 20 Character Backlighted LCD
Power Consumption	5 VA Maximum	Network Connection	RS-485
Operating Temp	10°F to 149°F	Protocol	HSI Open Protocol Token Passing
Operating Humidity	0-95% RH Non-Condensing	Housing Material	Beige Plastic
Keypad	24 Key Membrane Style	Communications	RS-485 - 9600 or 57,600 Baud
SD Memory Card	Programmable 4 Gigabyte		
One Year Warranty		**AAON reserves the right to change specifications without notice**	

System Manager TS II

ASM01897   ALT-REF number OE392-10

Description

The System Manager TS II (SMTS II) is a system interface that provides a direct link to enable the system operator to view the status, configure, and adjust the setpoints of the following AAON controllers:

- VCB-X Controller
- VCM-X E-BUS Series Controller
- VCM-X Series Controller
- VCM Controller
- VAV/Zone Controller
- MiniLink PD

NOTE: The SMTS II does not communicate with the VCC-X or VCCX2 Controller.

The SMTS II is equipped with a 4.3" 480 x 272 WQVGA RGB TFT LCD Touch Screen Display able to display 16 million colors. The SMTS II utilizes a graphical touch screen menu system with easy to understand menu trees and icons that provide the user with easy setup and operation without the need for specialized training. Protection from unauthorized users is provided by the SMTS II's integral multi-level passcode authorization programming.

The SMTS II is connected to the local communications loop of the Orion system via 18 AWG 2-conductor, twisted pair wire with shield wire connected to the T, SHLD & R communications terminals on the back of the SMTS II.

The communications wire used can be either AAON communications wire #G038140 or Belden #82760 wire or its equivalent. The SMTS II also requires that 24 VAC (6 VA) power be supplied (by others) to its + and – wiring terminal located on the back of the SMTS II.

Left Side View   **Front View (Cover Removed)**

Back View
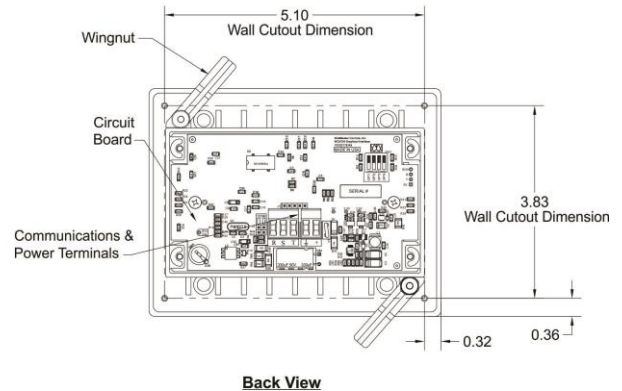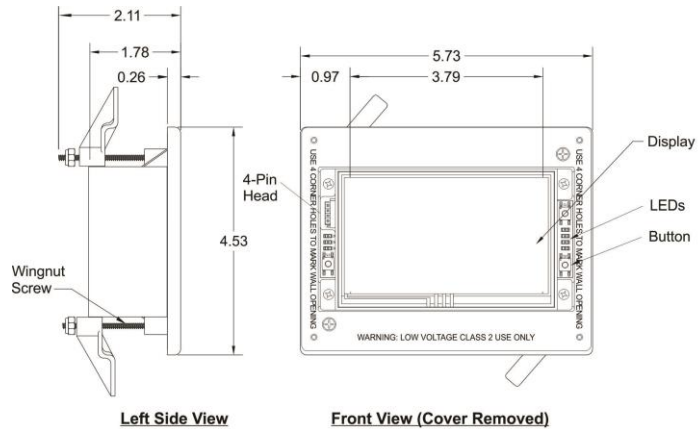
Mounting

The SMTS II is housed in a plastic enclosure designed for mounting in hollow drywall construction with the flush mount version (shown) or on a concrete, brick, or other solid wall surface with the surface mount version (optional). The flush mount version has integral wing nut paddles that are tightened after installation to grip the drywall and hold the SMTS II in place. The surface mount version is designed to be installed to a double duplex outlet box (by others). Both mounting styles of the SMTS II feature an integral magnetically-secured face plate which can be easily removed for reset of the display when required. The SMTS II should be mounted at approximately eye level to allow for ease of programming and reading of the display. The System Manager TS II is typically mounted in the building manager's or superintendent's office or in an equipment room, but is also quite suitable for mounting in any location or with most decors.

Technical Data		System Manager TS II	
Display	4.3" 480x272 WQVGA RGB TFT LCD Touch Screen Display w/ 16 million colors	Communication Connection	RS-485
Power Supply	24 VAC Single 60 Hz	Protocol	HSI Open Protocol Token Passing
Power Consumption	6 VA Maximum	Housing Material	Plastic
Operating Temp	14°F to 158°F	Communications	Isolated RS-485
Operating Humidity	Less than 95% RH Non-Condensing	User Interface Method	LCD Touch Screen
One Year Warranty		**AAON reserves the right to change specifications without notice**	

PT-Link II BACnet4®
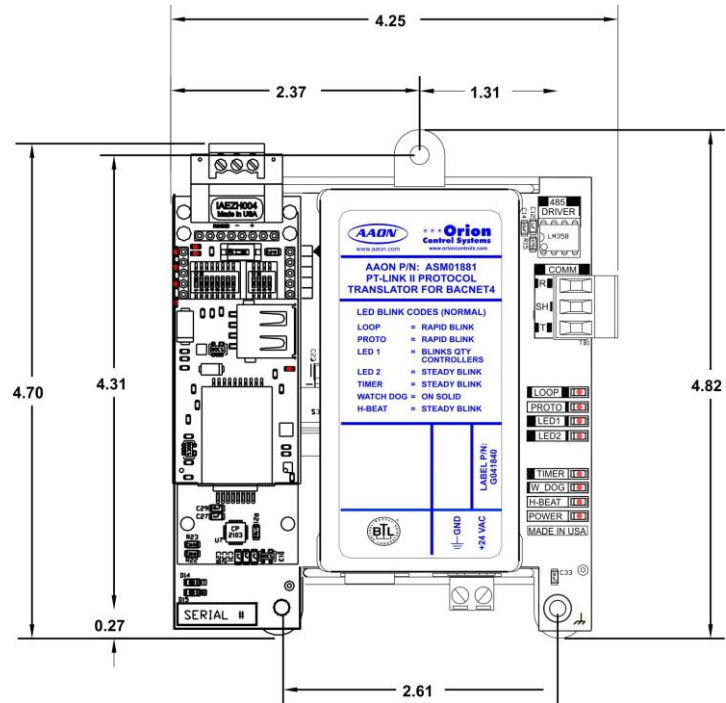
ASM01881 ALT-REF number OE368-23B-BACNET4®

Description

The MS/TP PT-Link II for BACnet4® (Protocol Translator) is used to provide bi-directional translation of data and information between a specific communication protocol and the AAON HVAC unit controllers. Protocol specific plug in modules currently allow the PT-Link II to communicate with BACnet® MS/TP protocol devices. The AAON PT-Link II also provides you with the AAON trademarked "Protocol Adaptability®" feature. This provides for integration with any future protocols that may be released by means of a simple plug-in module on the PT-Link II.

The PT-Link II is supplied with one communication protocol module installed. The BACnet® MS/TP protocol allows up to (4) AAON controllers to be connected to the PT-Link II Protocol Translator. An unlimited number of individual PT-Link II Protocol Translators can be used on your project.

Features

- The PT-Link II BACnet4® can operate at Baud rates of 9600, 19200, 38400, or 76800 or Baud as required by the specific protocol being used.

- Allows for dipswitch configuration.

- Designed to provide values from points on the AAON controller side of the gateway to devices using other protocols as if the values were originating from the protocol device objects.

- Ability to allow devices with another protocol to modify point values on the Orion controller side of the gateway by using their standard protocol write services.

- Devices with another protocol can place the AAON Controller into occupied or unoccupied operation on the AAON controller side of the gateway by using their standard protocol write services.

Mounting

The PT-Link II is provided with 3 mounting holes for mounting in a control enclosure (by others). It is recommended that the PT-Link II be mounted indoors. Typically, it is mounted in an equipment room inside the building but can be mounted in any location that meets the operating temperature and humidity conditions listed below.

Technical Data		PT-Link II for BACnet4®	
Power	18-30 Volt AC 50/60 HZ	BACnet® MS/TP Protocol Communications	RS-485, 9600, 19200, 38400, 76800. Manually Selectable Baud Rates for Specified Protocol Requirements
Power Consumption	10 VA Maximum	Orion Controller Loop	RS-485, 9600 Baud
Operating Temp	-30°F to 150°F	Specified Protocol Communications	Supports Specified Protocols Native Communication Format
Operating Humidity	Up to 95% RH Non-Condensing	Orion Controller Protocol Communications	HSI Open Protocol Token Passing
Weight	4.5 oz.		
One Year Warranty		**AAON reserves the right to change specifications without notice**	

BACnet® is a registered trademark of ASHRAE Inc., Atlanta, GA.

PT-Link II LON-3®

ASM01883 ALT-REF number OE368-23-LON-3®

Description

The LON-3® PT-Link II (Protocol Translator) is used to provide bi-directional translation of data and information between a specific communication protocol and the AAON HVAC unit controllers. Protocol specific plug in modules currently allow the PT-Link II to communicate with LON-3® protocol devices. The AAON PT-Link II also provides you with the AAON trademarked "Protocol Adaptability®" feature. This provides for integration with any future protocols that may be released by means of a simple plug-in module on the PT-Link II. The PT-Link II is supplied complete with one communication protocol module installed.

The LON-3® PT Link II allows (1) AAON controller to be connected to the PT- Link II Protocol Translator. An unlimited number of individual PT-Link II Protocol Translators can be used on your project.

Features

- The PT-Link II LON-3® can operate at Baud rates of 9600, 19200, 38400, or 76800 or as required by the specific protocol being used.

- Designed to provide values from points on the AAON controller side of the gateway to devices using other protocols as if the values were originating from the protocol device objects.

- Ability to allow devices with another protocol to modify point values on the AAON controller side of the gateway by using their standard protocol write services.

- Devices with another protocol can place the AAON Controller into occupied or unoccupied operation on the AAON controller side of the gateway by using their standard protocol write services.

Mounting

The PT-Link II is provided with 3 mounting holes for mounting in a control enclosure (by others). It is recommended that the PT-Link II be mounted indoors. Typically, it is mounted in an equipment room inside the building but can be mounted in any location that meets the operating temperature and humidity conditions listed below.

Technical Data			PT-Link II for LON-3®
Power	18-30 Volt AC 50/60 HZ	LON-3® Protocol Communications	RS-485, 9600, 19200, 38400, 76800. Manually Selectable Baud Rates for Specified Protocol Requirements
Power	10 VA Maximum	Orion Controller Loop	RS-485, 9600 Baud
Operating Temp	-30°F to 150°F	Specified Protocol Communications	Supports Specified Protocols Native Communication Format
Operating Humidity	Up to 95% RH Non-Condensing	Orion Controller Protocol Communications	HSI Open Protocol Token Passing
Weight	4.7 oz.		
One Year Warranty			**AAON reserves the right to change specifications without notice**

LON® and LONWorks® are registered trademarks of Eschelon Corporation.

PT-Link II N2-4®

ASM01886 ALT-REF number OE368-23N-N2-4®
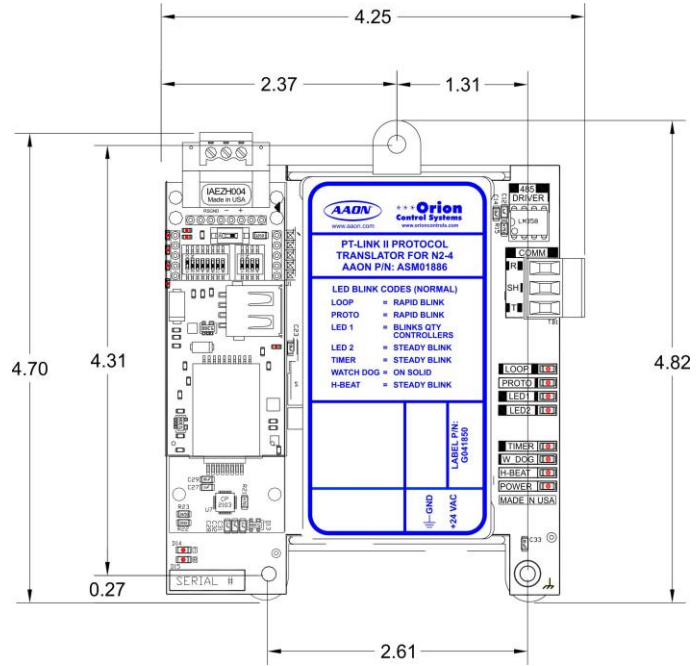
Description

The N2-4® PT-Link II (Protocol Translator) is used to provide bi-directional translation of data and information between a specific communication protocol and the AAON HVAC unit controllers. Protocol specific plug in modules currently allow the PT-Link II to communicate with Johnson N2® protocol devices. The Orion PT-Link II also provides you with the AAON trademarked "Protocol Adaptability®" feature. This provides for integration with any future protocols that may be released by means of a simple plug-in module on the PT-Link II.

The PT-Link II is supplied complete with one communication protocol module installed.

The Johnson N2® protocol allows up to (4) AAON controllers to be connected to the PT-Link II Protocol Translator. An unlimited number of individual PT-Link II Protocol Translators can be used on your project.

Features

- The PT-Link II N2-4® operates at 9600 baud
- Allows for dipswitch configuration.
- Designed to provide values from points on the Orion controller side of the gateway to devices using other protocols as if the values were originating from the protocol device objects.
- Ability to allow devices with another protocol to modify point values on the Orion controller side of the gateway by using their standard protocol write services.
- Devices with another protocol can place the AAON Controller into occupied or unoccupied operation on the AAON controller side of the gateway by using their standard protocol write services.

Mounting

The PT-Link II is provided with 3 mounting holes for mounting in a control enclosure (by others). It is recommended that the PT-Link II be mounted indoors. Typically it is mounted in an equipment room inside the building but can be mounted in any location that meets the operating temperature and humidity conditions listed below.

Technical Data		PT-Link II for N2-4®	
Power	18-30 Volt AC 50/60 HZ	Johnson N2® Protocol Communications	9600 Baud
Power Consumption	10 VA Maximum	Specified Protocol Communications	Supports Specified Protocols Native Communication Format
Operating Temp	-30°F to 150°F	Orion Controller Loop	RS-485, 9600 Baud
Operating Humidity	Up to 95% RH Non-Condensing	Orion Controller Protocol Communications	HSI Open Protocol Token Passing
Weight	4.5 oz.		
One Year Warranty		AAON reserves the right to change specifications without notice	

N2® is a registered trademark of Johnson Controls, Inc.

Heating & Cooling Products

E-BUS to USB Mini Adapter Board
ASM01979

Description

The E-BUS to USB Mini Adapter Board is an interface used to update E-BUS Modules and Controllers using our Prism 2 PC software.

To update an E-BUS Module or Unit Controller using the Adapter, you will need a Windows®-based computer with an available USB 1.1 or 2.0 port with AAON USB drivers installed. You will also need the Prism 2 computer front end software installed on the Windows® 10 computer you are using.
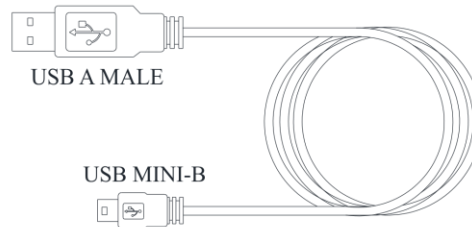
The E-BUS to USB Mini Adapter Board has (2) EBC E-BUS connections and (1) USB Mini port connection.

The E-BUS to USB Mini Adapter is supplied with a 6 foot USB A to USB Mini-B mini cable, a 1.5 foot EBC to 3 Pin cable, and a 1.5 foot EBC to EBC cable.

E-BUS to USB Mini Adapter Board
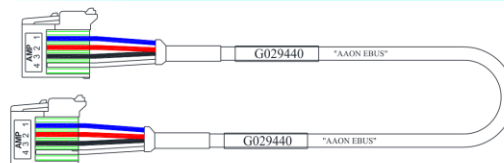
Shrink Tubing 1" by 2.20" (Approximately) Clear

6 Foot Long
USB A Male to Mini-B Cable

1.5 Foot Long
EBC to 3 Pin Cable

1.5 Foot Long
EBC to EBC Cable

Technical Data		EBC E-BUS to USB Mini Adapter Board	
Adapter Board Terminations	(2) EBC E-BUS Connections (1) USB Mini-B Connection	Cables	G031080 – 6 Foot USB A to USB Mini-B Cable G060330 – 1.5 Foot EBC to 3 Pin (3.5mm Connector) Cable G029440 – 1.5 Foot EBC to EBC Cable
One Year Warranty		AAON reserves the right to change specifications without notice	