EcoStruxure™

Innovation At Every Level

SpaceLogic Advanced Display HMIs

EcoStruxure™ Building

Introduction

SpaceLogic™ Advanced Display v3 (AD v3) is an industrial grade Human Machine Interface (HMI) that can easily be locked to an application such as EcoStruxure Building Operation WebStation to create a dedicated tool for local operation and maintenance of an EcoStruxure BMS.

Features

AD v3 provides an easy-to-use interface through which users and engineers can locally access EcoStruxure BMS servers from an HMI terminal installed on a control cabinet. The simplified user interface and the intuitive touchscreen navigation make it easy for you to operate and maintain the system.

Fully integrated HMI solution

With AD v3, Schneider Electric offers a fully integrated HMI solution that provides benefits such as ease of use, ease of installation, and robust locking mechanism.

Based on an Android platform

AD v3 offers an HMI that is built to last, with a battery-free power supply. The HMI is based on an Android platform with high-resolution touchscreen display, high-quality design, leading technology, and good communications and graphics performance. The display size is 10.1 inches, which is an ideal size for many HMI solutions.

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Protective frame and ease of installation

AD v3 has an IP54 rated frame that helps protect against dust and moisture. AD v3 is quick and easy to install.

Preinstalled software

AD v3 is delivered with the following preinstalled software:

- HMI Kiosk for locking AD v3 into Kiosk mode
- USBnet driver for enabling IP over USB communication

Dedicated HMI for operation and maintenance

With HMI Kiosk, you can easily lock AD v3 into Kiosk mode and use AD v3 as a dedicated HMI for operation and maintenance. Kiosk mode enables you to select which app can be used by the end user and helps prevent the user from leaving the selected app, running other apps, interacting with the OS, and accessing the file system. The benefits of Kiosk mode include enhanced data security and easier technical support.

Direct access to EcoStruxure BMS servers

WebStation comes built-in with every EcoStruxure BMS server and provides a web-based user interface for operation and maintenance of EcoStruxure BMS servers. With HMI Kiosk, you can easily make the embedded web browser run WebStation in Kiosk mode. For more information, see the WebStation specification sheet.

HMI solution for different use cases

AD v3 offers an HMI solution that is suitable for different use cases and locations. With AD v3 locked to WebStation and installed on a control cabinet in a plant room, you get an excellent HMI for local maintenance.

Communication and power

The USBnet driver enables AD v3 to communicate with automation servers over a wired (USB) connection. AD v3 can be powered by a 24 VAC or 24 VDC power supply. For connection to a 24 VAC power supply, the Y-shaped cable with USB isolation (SXWADUSBC10012 or SXWADUSBC10013) must be used. For connection to a 24 VDC power supply, either the Y-shaped cable with USB isolation or the Y-shaped cable without USB isolation (SXWADUSBC10002 or SXWADUSBC10003) can be used. Use only the cables designed for AD v3. The required cables can be ordered from Schneider Electric.

Part Numbers

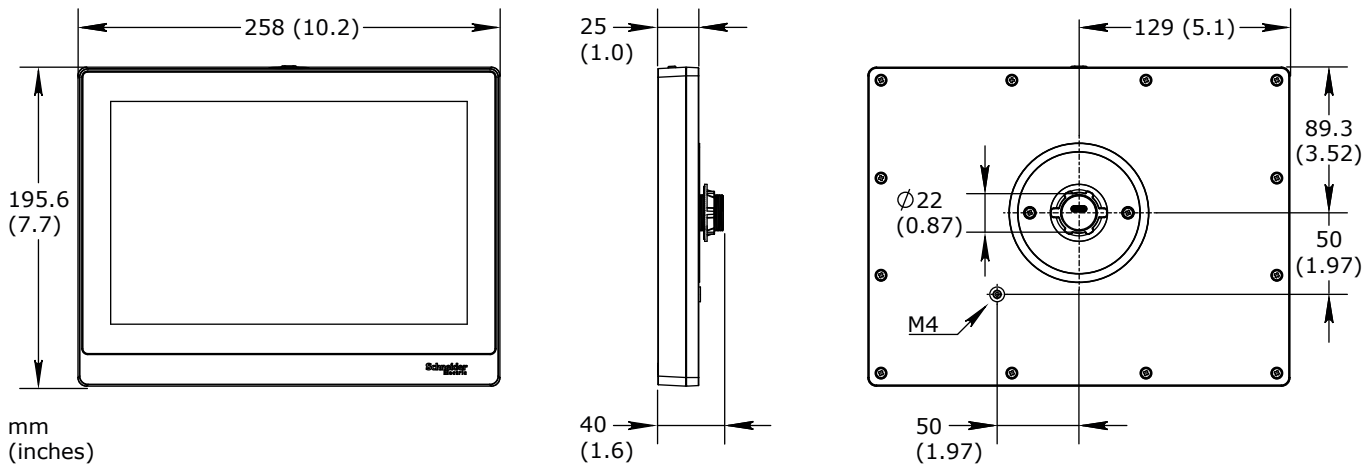| Product	Part number
AD v3 bundle (Includes HMI device, cable fitting with nut, and earth ground screw with washer)	SXWADBUND10013
AD v3 cable with USB isolation, Y-shaped, 1.35 m (4.43 ft) For connection to an automation server and a 24 VAC or 24 VDC power supply	SXWADUSBC10012
AD v3 cable with USB isolation, Y-shaped, 2.85 m (9.35 ft) For connection to an automation server and a 24 VAC or 24 VDC power supply	SXWADUSBC10013
AD v3 cable, Y-shaped, 1.35 m (4.43 ft) For connection to an automation server and a 24 VDC power supply	SXWADUSBC10002
AD v3 cable, Y-shaped, 2.85 m (9.35 ft) For connection to an automation server and a 24 VDC power supply	SXWADUSBC10003

Specifications

SpaceLogic Advanced Display	
AC input	
24 VAC input	
AD v3 can be powered by a 24 VAC power supply connected to the USB-C connector using the Y-shaped cable with USB isolation (SXWADUSBC10012 or SXWADUSBC10013). The Y-shaped cable is used for power supply and data communication.	
Nominal voltage	24 VAC
Operating voltage range	+/- 20 %

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Frequency	50/60 Hz
Maximum power consumption	19.9 VA (0.83 A at 24 VAC)

DC input

24 VDC input

AD v3 can be powered by a 24 VDC power supply connected to the USB-C connector using either the Y-shaped cable with USB isolation (SXWADUSBC10012 or SXWADUSBC10013) or the cable without USB isolation (SXWADUSBC10002 or SXWADUSBC10003). The Y-shaped cable is used for power supply and data communication.

Nominal voltage	24 VDC
Operating voltage range	+/-10 %
Typical example of 24 VDC power supply	ABLM1A24012 (Schneider Electric)
Maximum power consumption	17.5 W (0.73 A at 24 VDC)

20 VDC or 15 VDC input (per USB Power Delivery specification)

AD v3 can be powered by a USB-C power supply providing 20 VDC (1 A) or 15 VDC (1.5 A). For information on the use of 15 VDC or 20 VDC USB-C power supply to power AD v3, contact Schneider Electric.

Nominal voltage	20 VDC (USB-C) 15 VDC (USB-C)
Operating voltage range	+/-5 % (USB-C)
Recommended USB power supply ratings	20 VDC, 1 A (20 W) 15 VDC, 1.5 A (22.5 W)
Maximum power consumption	17.8 W (0.89 A at 20 VDC) 19.4 W (1.29 A at 15 VDC)

Environment

Ambient temperature, operating	0 to 40 °C (32 to 104 °F)
Ambient temperature, storage	-20 °C to +60 °C (-4 °F to +140 °F)
Maximum humidity	95 % RH non-condensing

Material

Enclosure	PC/ABS
Ingress protection rating	IP 54
Plastic flame rating	UL94 V-0

Mechanical

Dimensions (W x H x D)	258 x 195.6 x 25 mm (10.2 x 7.7 x 1.0 in.)

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mm
(inches)

Earth ground screw	M4 x 10 mm Phillips pan head machine screw with external tooth washer
Weight (excluding nut)	0.933 kg (2.056 lb)
Installation a) The installation requires a 22 mm (0.87 in.) diameter hole in the cabinet.	On control cabinet[a]

Software compatibility	
EcoStruxure Building Operation software	version 2.0.4 or later

Agency compliances	
EMC	BS/EN 55032; BS/EN 55035; BS/EN 55011; BS/EN IEC 61000-6-1; BS/EN IEC 61000-6-3 FCC 47 CFR Part 15 Subpart B, Class B ICES-003 (Issue 7), Class B RCM AS/NZS CISPR 32, Class B
Safety standards	BS/EN 62368-1:2014 + A11:2017 IEC 62368-1:2014 (2nd Edition) UL 62368-1 (2nd Edition) CAN/CSA C22.2 No. 62368-1-14 (2nd Edition)

Communications	
USB	USB 2.0, 1 USB Type-C port

Hardware	
DDR3 SDRAM	2 GB
eMMC memory	8 GB
Button	Power button
Expansion slot	M.2 2230 connector, key E, PCI Express interface

Operating system	
Supported versions	Android 8.1 (Oreo)

Display	
Display resolution	1280 x 800 pixels
Display aspect ratio	16:10

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Display size	10.1 inches (255 mm)
Display type	TFT LCD, touchscreen
LED lifetime[a]	12,000 hours

a) The LED lifetime is defined as the time when the LED continues to operate at the ambient temperature 25 °C +/-2 °C (77 °F +/- 3.6 °F) until the brightness is reduced to 50% of its original value.

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Regulatory Notices

Federal Communications Commission
FCC Rules and Regulations CFR 47, Part 15, Class B
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Regulatory Compliance Mark (RCM) - Australian Communications and Media Authority (ACMA)
This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.

UK Conformity Assessed
S.I. 2016/1091 - Electromagnetic Compatibility Regulations 2016
S.I. 2012/3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
S.I. 2013/3113 - Waste Electrical and Electronic Equipment Regulations 2013
This equipment complies with the rules, of the UK regulations, for governing the UKCA Marking for the United Kingdom specified in the above directive(s).

CE - Compliance to European Union (EU)
2014/30/EU Electromagnetic Compatibility Directive (EMCD)
2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
2015/863/EU amending Annex II to Directive 2011/65/EU
This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s).

WEEE - Directive of the European Union (EU)
This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.

UL 62368-1 Listed product for the United States and Canada. UL file E148489.

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