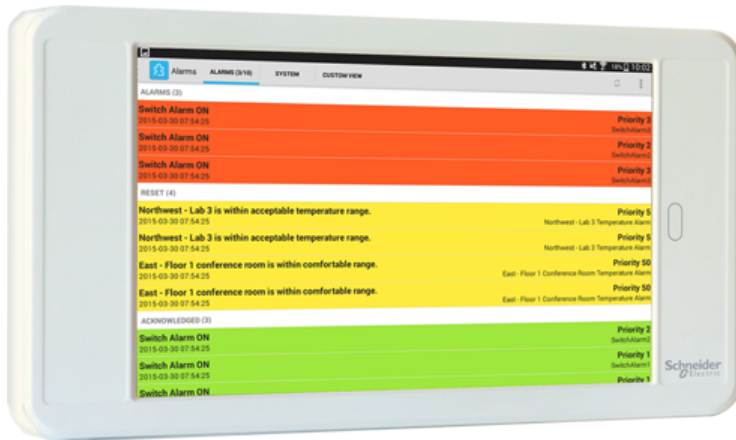# AD v2

Introduction

SmartX Controller – AD v2 (AD v2) is a Human Machine Interface (HMI) that can easily be locked to an application such as Technician Tool to create a dedicated tool for local operation and maintenance of a SmartStruxure solution. You can also create turnkey HMI solutions for hospitals, hotels, and offices by locking and packaging AD v2 with an end-user application such as AdaptiApps.

Features

AD v2 provides an easy-to-use interface through which users and engineers can locally access SmartStruxure servers from a handheld device or an HMI terminal installed on a control cabinet or a wall. 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 v2, Schneider Electric offers a fully integrated HMI solution that encompasses benefits such as one-stop shopping, ease of use, ease of installation, and robust and secure locking mechanism.

Based on a top-rated Android platform

AD v2 offers a reliable HMI solution based on a top-rated 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.

Protective frame for quick and easy installation

AD v2 is delivered with a frame that protects against dust, moisture, and mechanical damage. The frame is quick and easy to install. The frame has a base with hole mount patterns to support a variety of installation options on control cabinets and walls. Installation on VESA stands is also supported.

Preinstalled apps

AD v2 is delivered with the following set of preinstalled apps:

- SmartXKiosk for locking AD v2 into Kiosk mode
- SmartX AD-Link for enabling IP over USB communication
- Technician Tool for operation and maintenance of SmartStruxure servers
- AdaptiApps shell apps for deployment of AdaptiApps end-user apps

Dedicated HMI for operation and maintenance

With the preinstalled SmartXKiosk app, you can easily lock AD v2 into Kiosk mode and turn it into a dedicated HMI for operation and maintenance. Kiosk mode enables you to select which app can be used by the end user and prevents 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, reduced risk of theft, and easier technical support. AD v2 offers a robust Kiosk mode with high cybersecurity.

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Variety of apps

The Schneider Electric apps portfolio offers a variety of apps for different user profiles, functions, and steps of the building life cycle. You can easily download and select the app you want AD v2 to run in Kiosk mode. The preinstalled Technician Tool app provides a simplified user interface for operation and maintenance of the SmartStruxure solution. For more information, see the Technician Tool specification sheet. The latest version of Technician Tool can be downloaded from Google Play. End-user apps to control and monitor the SmartStruxure solution can be designed, managed, and deployed using the AdaptiApps web site. AD v2 is preinstalled with three AdaptiApps shell apps, which offer different methods for deploying user apps. The latest versions of the AdaptiApps shell apps can be downloaded from Google Play.

HMI solution for different use cases

AD v2 offers an HMI solution that is suitable for different use cases and locations. With AD v2 locked to Technician Tool and installed on a control cabinet in a plant room, you get an excellent HMI for local maintenance. By locking AD v2 to an AdaptiApps user app and installing the device on a wall in a hospital, a hotel, or an office, you create an HMI adapted to end users. Without the protective frame, you can use AD v2 as a portable HMI terminal.

Communication and power

The preinstalled SmartX AD-Link app enables AD v2 to communicate with SmartStruxure servers over a USB connection. AD v2 can also communicate with SmartStruxure servers through a wireless access point such as WIFER from Schneider Electric. AD v2 can be powered by AS-P or AS-B through the USB cable. In all other cases, AD v2 needs to be powered by an approved USB power adapter. It is recommended to use only USB cables designed for AD v2. The required USB cables can be ordered from Schneider Electric.

Specifications

Electrical

DC input current consumption	500 mA to 1.3 A
DC input supply voltage	5 VDC (USB)

Environment

Ambient temperature, operating	5 to 35 °C (41 to 95 °F)
Ambient temperature, storage	-20 °C to +60 °C (-4 °F to +140 °F)
Maximum humidity	95 % RH non-condensing

Material

Enclosure	UV stable ABS
Enclosure rating	IP 54
Plastic rating	UL94-HB

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Mechanical

Dimensions (W x H x D)..301 x 167 x 19 mm (11.8 x 6.6 x 0.75 in.)

mm
(inches)
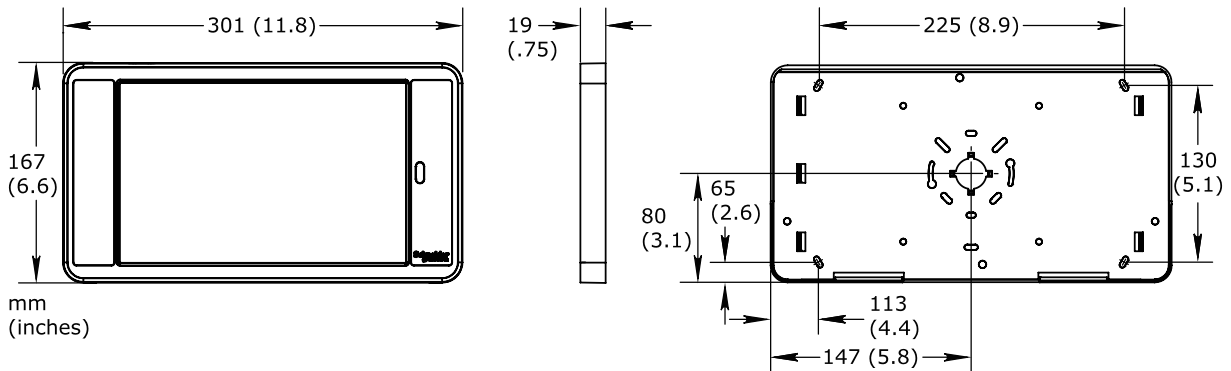
Weight ....0.743 kg (1.638 lb)

Agency compliances

EMC...................EN 301 489-1 V1.9.2; EN 301 489-17 V2.2.1; EN 301 489-3 V1.6.1; EN 55024:2010; EN 55032:2012; FCC Part 15, Sub-part B, Class B; ICES-003, Class B

Radio ....EN 300 328 V1.9.1; EN 300 440-2 V1.4.1; EN 301 893 V1.8.1

SAR.. EN 50566:2013; EN 62479:2010

Safety .... EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

FCC ID A3LSMT580

Communications

USB ....1 USB 2.0 port

WiFi...802.11 a/b/g/n/ac 2.4 + 5 GHz, VHT80

CPU

Frequency...1.6 GHz

Type... Octa-core (8-core)

Internal memory ....2 GB RAM, 16 GB ROM

Operating system

Supported versions ....Android 6.0 (Marshmallow)

Display

Display resolution ....1,920 x 1,200 pixels

Display aspect ratio...16:10

Display size ....10.1 inches (255 mm)

Display type ....TFT LCD, touchscreen

Part numbers

AD v2 bundle
(Includes tablet and protective frame with base) SXWADBUND10002

USB cable, 1.5 m (5 ft)
For connection to AS-P, AS-B, or USB power adapter SXWADUSBA10001

USB cable, 3.0 m (10 ft)
For connection to AS-P, AS-B, or USB power adapter SXWADUSBA10002

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USB cable, Y-shaped, 1.5 m (5 ft)
For connection to Automation Server and USB power adapter SXWADUSBB10001

USB cable, Y-shaped, 3.0 m (10 ft)
For connection to Automation Server and USB power adapter SXWADUSBB10002

Regulatory Notices

FC **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.
FCC Equipment Authorization ID: A3LSMT580 for the radio certification.

Industry Canada
This Class B digital apparatus complies with Canadian ICES-003.
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

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.

CE - Compliance to European Union (EU)
Directive 1999/5/EC on radio equipment and telecommunications terminal equipment (R&TTE)
Directive 2011/65/EU on the restriction of the use of certain hazardous substances (RoHS)
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.