

Operator Display

SpaceLogic™ HMIs



7-inch panel mounted touch screen interface

Introduction

SpaceLogic™ Operator Display is a touch-screen Human Machine Interface (HMI) for SpaceLogic controllers, designed for local monitoring of building controllers in small and medium-sized buildings, as well as in large buildings with comprehensive building management systems. Operator Display is specifically designed for equipment rooms and it simplifies operations, service, and troubleshooting for System Integrators and Service Engineers, as well as for non-technical users (notably Facility Managers and Janitors).

Features

The simplified user interface and the intuitive touch-screen navigation make it easy to operate and maintain the system. Operator Display communicates quickly over BACnet/IP open protocol with a direct connection to SpaceLogic* MP or RP controllers. Only one Operator Display is required per cabinet in the equipment room, so there is no need for more displays when a controller is added (up to seven controllers). The operator can view and acknowledge alarms, and adjust setpoint temperatures. Authorized operators can also view and override inputs, outputs, and other virtual points.

* Formerly known as SmartX.

Fully integrated HMI solution

Operator Display offers a fully integrated HMI solution that provides benefits such as ease of use and installation.

Protective frame and ease of installation

Operator Display has an IP 65 rated frame that helps protect against dust and moisture. It is quick and easy to install.

Touch-screen display

Operator Display features a large 7-inch, color touch-screen display.

Preinstalled software

Operator Display is delivered with the purpose-built application preloaded on the device so it is ready-to-use and commissioned quickly without the need for any programming or external tools.

Communication and power

Operator Display is powered by an external 24 VDC power supply (not included) through the DC power supply connector, and it communicates over BACnet/IP open protocol.

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Part Number

Product	Part number
Operator Display 7-inch bundle (Includes HMI device, installation gasket, installation	HMIST6400SL

Spare Parts (Not Included)

Product	Part number
Installation gasket (Provides dust and moisture resistance when this product is installed into a solid panel (1 piece))	HMIZS53W1
Installation fastener (2 pieces/set)	HMIZSFIXTF1
Power supply connector for small panels (10 pieces/set)	XBTZ3004

Other Required Parts (Not Included)

Product	Part number
24 VDC power supply (Typical examples)	ABLM1A24004, ABLM1A24006, ABLM1A24012, ABLM1A24025
Micro USB 2.0 OTG cable	–
USB stick (FAT formatted)	–

Specifications

DC input

Nominal voltage.....	24 VDC
Operating voltage range	+/- 20 %
Inrush current	30 A
Maximum power consumption	9 W
Immunity to microbreaks.....	5 ms

Environment

Physical environment

Ambient temperature, operating	0 to 50 °C (32 to 122 °F)
Ambient temperature, storage	-20 °C to +60 °C (-4 °F to +140 °F)
Humidity.....	10 to 90 % RH non-condensing
Pollution degree.....	2

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Operating altitude800 to 1,114 hPa (2,000 m (6,561 ft) or lower)

Mechanical environment

Vibration resistanceIEC/EN 61131-2 compliant
.....5 to 9 Hz Single amplitude 3.5 mm (0.14 in)
.....9 to 150 Hz Fixed acceleration: 9.8 m/s²
.....X, Y, Z directions for 10 cycles (approximately 100 minutes)

Shock resistanceIEC/EN 61131-2 compliant: 147 m/s², X, Y, Z directions for 3 times

Electrical environment

Electrical fast transient/burstIEC 61000-4-4, 2 kV: Power port (display unit), 1 kV: Signal ports

Electrostatic discharge immunity IEC/EN 61000-4-2 Level 3, Contact discharge method: 6 kV, Air discharge method: 8 kV

Material

EnclosurePC

FrontAluminum

Ingress protection ratingIP 65 (front of product that is exposed, on panel-mounted installation)

NEMA ratingNEMA 4 (front, indoor use)

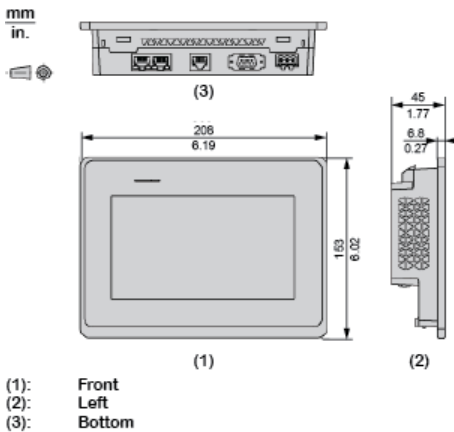
.....NEMA 13 (front, in enclosure)

Plastic flame ratingUL94 V-0

Mechanical

Dimensions (W x H x D)208 x 153 x 45 mm (8.19 x 6.02 x 1.77 in.)

See drawing below:



Weight0.8 kg (1.8 lb)

InstallationMounted to the panel using 4 screws (included), conforming to UL 61010-1, CSA C22.2 No 61010-1, UL 61010-2-201, CSA C22.2 No 61010-2-201 (1.6 to 5 mm (0.1 to 0.2 in) thick panel), EN 61131-2, and EN 61000-6-2

Software compatibility

Customized alarm message support

EcoStruxure Building Operation softwareversion 3.3.1 and later

Agency compliances

Emission EN 61326-1, Class A; FCC Part 15, Sub-part B, Class A

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.....	EN 61000-6-4
Immunity	EN 61000-6-2
Safety standards	EN 61131-2
.....	UL 61010-1
.....	CSA C22.2 No 61010-1
.....	UL 61010-2-201
.....	CSA C22.2 No 61010-2-201

Real-time clock

Power	Battery (CR2032)
Accuracy	+/- 20 ppm

Communication ports

Ethernet	Dual 10/100BASE-TX (RJ45) ^a
a) Only one port is used; the second one is inactive	
USB	1 USB 2.0 host port (type-A), 5 VDC, 2.5 W
.....	1 USB 2.0 device port (micro-B)
RS-232C	1 COM1 (D-Sub, 9-pin, female) - Inactive
RS-485	1 COM2 (RJ45, female) - Inactive

Hardware

CPU type	ARM Cortex-A8 single-core
Frequency	800 MHz
Device memory (NAND Flash)	1 GB (including 180 MB for user data)
Backup memory (MRAM)	512 KB
Status indicator	LED (green, orange, and red)
.....	Buzzer (not used)

Display

Display resolution	800 x 480 pixels (WVGA)
Display aspect ratio	16:10
Display size	7 inches (178 mm)
Display type	TFT LCD, touchscreen
.....	Single touch analog resistive panel
Color	16 million colors
Display languages .Czech, Danish, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Russian, Slovak, Spanish, Swedish	
Brightness control	400 cd/m2
.....	16 levels
LED lifetime ^a	50,000 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 25% of its original value.	

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Regulatory Notices

Federal Communications Commission

FCC Rules and Regulations CFR 47, Part 15, Class A

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 A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.



UL LISTED UL 61010-1 and 61010-2-201 Listed product for the United States and Canada. UL file E220851.

CE - Compliance to European Union (EU)

2014/30/EU Electromagnetic Compatibility Directive

2014/35/EU Low Voltage Directive

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) per the provisions of the following standards: EN 61326-1 Product Standard, EN 61131-2 Safety Standard.



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.