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Indigo520 Supervisor

For daisy-chaining of compact probes

Features

- Host unit for daisy-chained XMP10, HMP110, HMP113, and TMP115 compact probes.
- Supports 2 daisy chains with up to 100 probes, 50 probes per chain.
- Modbus TCP protocol for building management system integration.
- Integrated local user interface for monitoring, probe management, and alert visualization.
- Supports easy commissioning and maintenance with configuration and probe swap features.

Vaisala Indigo520 Supervisor is a host unit for daisy-chained compact measurement probes. It supports 2 daisy chains with up to 50 probes per chain, and integrates seamlessly with building management systems (BMS) through the Modbus TCP protocol. Its integrated touchscreen display simplifies monitoring, probe management, commissioning, and maintenance throughout the system lifetime.

Touchscreen display for monitoring

The integrated local user interface provides easy access to measurement data, system status, and alerts. Users can view monitoring dashboards, verify probe operation, and quickly identify potential issues without the need for external tools. Commissioning of the daisy chains is supported with a convenient web interface tool.

Seamless BMS integration

Indigo520 Supervisor provides measurement data to BMS through the Modbus TCP protocol. Consistent register mapping across all installations simplifies integration, commissioning, and maintenance, especially in multisite deployments. The system configuration can be exported as a CSV file.

Easy probe mapping

Indigo520 Supervisor simplifies probe commissioning, configuration, and replacement. Built-in probe management and probe swap features help reduce installation effort, streamline calibration and maintenance, and minimize downtime throughout the system lifecycle.

Technical data

Compatible devices

Device or series	Models
XMP10 Series Humidity and Temperature Probes	XMP10A, XMP10R, XMP10B, XMP10I, XMP10C, XMP10T
HMP110 Series Humidity and Temperature Probes	HMP110, HMP110T, HMP113, HMP115
HMP60 Series Humidity and Temperature Probes	HMP60, HMP63
Wide-Range Temperature Probe	TMP115

Mechanical specifications

Housing classification	IK08, DIN EN ISO 11997-1: Cycle B (VDA 621-415)
Housing material	AlSi10Mg (DIN 1725)
Display window material	Strengthened glass (IK08)
Weight	1.5 kg (3.3 lb)
Dimensions (H × W × D)	142 × 182 × 67 mm (5.63 × 7.17 × 2.64 in)
Cable diameters for cable glands	
M20×1.5 glands	5.0–9.0 mm (0.20–0.35 in)
M20×1.5 glands with split bushing	7 mm (0.28 in)
M16×1.5 glands	2.0–6.0 mm (0.08–0.24 in)

Operating environment

Operating environment	Outdoor use
Use in wet location	Yes
Operating humidity	0–100 %RH
Maximum operating altitude, AC (mains) power	3000 m (approx. 9800 ft)
Maximum operating altitude, protective extra-low voltage (PELV) and Power over Ethernet (PoE)	4000 m (approx. 13 100 ft)
IP rating	IP66 [1]
UL 50E rating	Type 4
Operating environment	−20 ... +55 °C (−4 ... +131 °F)
Storage temperature	−30 ... +60 °C (−22 ... +140 °F)

1) *Evaluated by Eurofins, not by UL.*

Powering

Powering options	• Protective extra-low voltage (15–35 V DC, 24 V AC ± 20 %) • AC (mains) power (100–240 V AC 50/60 Hz) • Power over Ethernet [1]
Operating power [2]	
Protective extra-low voltage (PELV) version	15–35 V DC, 24 V AC ±20 % 50/60 Hz, max. current 2 A (power supply is galvanically isolated) Fuse size for power supply: 3 A Isolation voltage: 500 V AC, 1000 V DC
PELV power cable temp. rating	≥ +80 °C (+176 °F)
AC (mains) power version	100–240 V AC 50/60 Hz, max. current 1 A (power supply is galvanically isolated) Fuse size for power supply: 10 A Isolation voltage: 1500 V AC
AC (mains) power cable length	2.5 m (approx. 8 ft 2 in)
Power over Ethernet version	Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4 Max. current 600 mA, max. power consumption 25.5 W Isolation voltage: 500 V AC, 1000 V DC
Typical current consumption at +20 °C (+68 °F) (U_{in} 24 V DC) [3]	
Base consumption (no communication)	110 mA
With relays	+ 9 mA per relay
With Ethernet cable connected	+ 15 mA

1) *Relays are not available in devices that are powered with Power over Ethernet (PoE).*
2) *The power supply option is selected when ordering the device.*
3) *For the current consumption of the connected measurement device, see the device's documentation, available at docs.vaisala.com.*

User interfaces

User interfaces	Web interface, touchscreen display
Supported languages	English
Display	5″ capacitive touchscreen

Inputs and outputs

Relay outputs [1]	
Number and type of relays	2 pcs, SPDT
Max. switching power, current, voltage	30 W, 1 A, 40 V DC / 28 V AC
Max. wire size in PELV version	2.5 mm^2 (14 AWG)
Max. wire size in AC (mains) version	1.5 mm^2 (16 AWG)
Ethernet interface	
Supported standards	10BASE-T, 100BASE-TX
Connector	8P8C (RJ45)
Supported protocols	Modbus TCP (port 502), HTTPS (port 8443)

1) *Not available in devices that are powered with Power over Ethernet (PoE).*

Compliance

EU directives and regulations	EMC Directive (2014/30/EU) Low Voltage Directive (2014/35/EU) RoHS Directive (2011/65/EU) as amended by 2015/863
Electromagnetic compatibility (EMC)	IEC/EN 61326-1, industrial environment CISPR 32 / EN 55032, Class B
Safety	IEC/EN 61010-1
Type approvals	DNV GL certificate no. TAA000032M EU RO Mutual Recognition certificate no. MRA000004F
Compliance marks	CE, China RoHS, FCC, RCM, UKCA
Listing marks	UL Listed (USA and Canada)
FCC compliance	FCC Part 15, Class B

c UL us LISTED

TYPE APPROVED PRODUCT DNV DNV.COM/AF

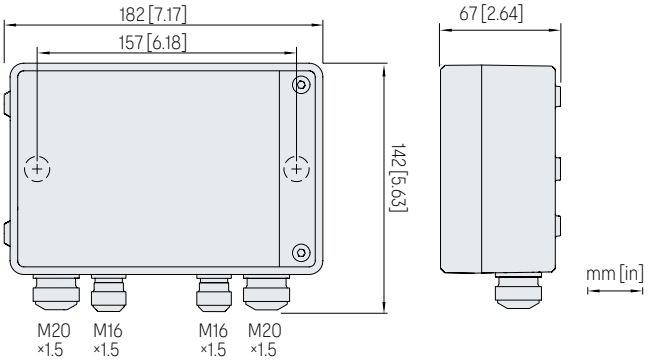
Spare parts

Cable gland, M20×1.5, 5.0–9.0 mm (0.20–0.35 in)	ASM213670SP
Cable gland, M20×1.5, 10.0–14.0 mm (0.39–0.55 in)	ASM215414
Cable gland with split bushing, M20×1.5 [1]	262632SP
Cable gland, M16×1.5, 2.0–6.0 mm (0.08–0.24 in)	ASM213671SP
Conduit fitting, M20×1.5 for NPT1/2″ conduit	214780SP
Probe connection cables with open wires	
1.2 m (4 ft) connection cable M8-4F	HMP50Z120
3 m (9.8 ft) connection cable M8-4F	HMP50Z300SP
5 m (16.4 ft) connection cable M8-4F	HMP50Z500SP
10 m (32.8 ft) connection cable M8-4F	HMP50Z1000SP

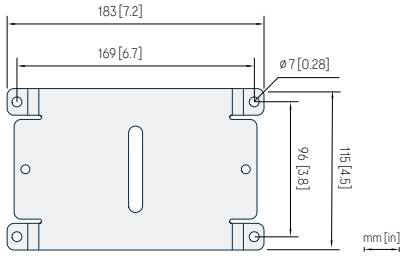
1) With 7-mm (0.28 in) hole for cable and 14-mm (0.55 in) hole for 8P8C (RJ45) connector to pass through.

Accessories

Retrofit mounting plate	DRW252186SP
Installation kit for pole or pipeline	215108
Installation kit with weather shield	215109
Indigo500 spatter guard	ASM214526



Indigo520 Supervisor dimensions and lead-through sizes



Indigo500 retrofit mounting plate dimensions

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