



ITS7000-INT Series HMI

User Guide



Industrial
Automation



Intelligent
Elevator



New Energy
Vehicle



Industrial
Robot



Rail
Transit



Data code PS00019048B00

Legal Information

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The contents are subject to change without notice due to product upgrade.

Waste Disposal

The storage, use, and disposal of this product (including optional accessories) must comply with local laws and regulations.

Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel can identify the risks of the product/system and prevent possible dangers.

Proper Use of the Product

Proper transportation, storage, assembly, installation, commissioning, operation, and maintenance are required to ensure the safe operation of the product without any problems. The required ambient conditions must be met. All operations must follow the guidelines provided in this documentation.

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Preface

Introduction

This HMI is developed based on Linux architecture and adopts Android-style interfaces to provide users with friendly interactive experience. It features strong structural compatibility, supporting dimensions and installation of ITS7000 and other popular HMIs. It carries Type-C interface and can be connected to USB printers. The front panel complies with IP66 requirements to withstand harsh environments.

This user guide describes mechanical design, electrical design, and standards of the product.

Note

- The drawings in the user guide are shown for illustration only and may be different from the product. Actual products may vary.
- The user guide is subject to change due to product upgrade, specification modification as well as efforts to the accuracy and convenience of the guide.

Standards compliance

The following table lists the certifications, directives, and standards that the product may comply with. For details about the acquired certificates, see the certification marks on the product nameplate.

Certification	Directive		Standard
CE Certification	EMC Directive	2014/30/EU	24 VDC products: EN 61131-2 220 VAC products: EN 61131-2 EN 61000-3-2 EN 61000-3-3
	LVD Directive	2014/35/EU	EN 61010-1 EN 61010-2-201
	RoHS Directive	2011/65/EU amended by (EU)2015/863	EN IEC 63000
UL/cUL Certification	-		UL 61010-1 UL 61010-2-201 CAN/CSA-C22.2 No. 61010-1 CAN/CSA C22.2 No. 61010-2-201
KC Certification	-		KS C 9610-6-2:2019 KS C 9610-6-4:2022 KS C 9811:2019 EN IEC 61131-2
WEEE Certification	WEEE Directive	2012/19/EU	-

Revision history

Date	Version	Revision
September 2025	B00	Second release. • Updated the product appearance. • Added KC certification and WEEE certification. • Added the capacity specifications of the SD card interface and USB Type-A interface in <i>“2.3 Technical Specifications” on page 11.</i> • Added descriptions of models ITS7070E-INT, ITS7070EH-INT, ITS7070S-INT, ITS7070SH-INT, and ITS7100P-INT.
March 2025	A00	Initial release.

Access to the guide

This guide is not delivered with the product. You can obtain the PDF version in the following ways

- Do keyword search under Service and Support at www.inovance.com.
- Scan the QR code on the product with your smart phone.
- Scan the QR code below to install My Inovance app, where you can search for and download user guides.



Warranty disclaimer

Inovance provides warranty service within the warranty period (as specified in your order) for any fault or damage that is not caused by improper operation of the user. You will be charged for any repair work after the warranty period expires.

Within the warranty period, maintenance fee will be charged for the following damage:

- Damage caused by operations not following the instructions in the user guide
- Damage caused by fire, flood, or unusual voltage
- Damage caused by unintended use of the product
- Damage caused by use beyond the specified scope of application of the product
- Damage or secondary damage caused by force majeure (natural disaster, earthquake, and lightning strike)

The maintenance is charged according to the latest Price List of Inovance. If otherwise agreed upon, the terms and conditions in the agreement shall prevail.

For details, see Product Warranty Card.

1 Safety Precautions

1.1 Fundamental Safety Instructions

Safety disclaimer

1. Read and follow the safety instructions when installing, operating, and maintaining the equipment.
2. To ensure your safety and prevent damage to the equipment, follow the marks on the equipment and all the safety instructions in this guide.
3. "CAUTION", "WARNING", and "DANGER" items in this guide do not indicate all safety precautions that need to be followed; instead, they just supplement the safety precautions.
4. Use this equipment according to the designated environment requirements; otherwise, a fault may occur. Malfunction or damage caused by improper use is not covered by warranty.
5. Inovance shall take no responsibility for any personal injury or property damage caused by improper use.

Safety levels and definition



: "DANGER" indicates that failure to comply with the notice can result in severe personal injury or even death.



: "WARNING" indicates that failure to comply with the notice may result in severe personal injury or even death.



: "CAUTION" indicates that failure to comply with the notice may result in minor or moderate personal injury or equipment damage. Keep this user guide properly for future use and deliver it to the end user.

Control system design	
 WARNING	• Set interlock circuits and other circuits (such as emergency stop, conventional protection, forward and reverse rotation) outside the product. Set devices for preventing equipment damage (such as up, down and reciprocating movement limit) outside the product. • Set a fault protection circuit outside the product to prevent unintended mechanical movements, such as those arising from faults in undetectable I/O control areas. • Design a user program to inform users of faults concerning the display, control, communication, power supply and so on, ensuring safety of the user system. • Avoid malfunction, personal injury, and equipment damage caused by communication faults between the product and the master controller. • Do not bring live parts into contact with the metal enclosure of the product.
 CAUTION	• Do not set switches that may result in operator injury or equipment damage on the touch screen. Use independent switches for critical operations. Failure to comply may result in accidents caused by wrong outputs or faults. • Do not set switches for equipment safety operations on the touch screen, such as the emergency stop switch. Use independent hardware switches for safety operations. Failure to comply may result in severe personal injury or equipment damage. • Do not use this product for critical alarms that may result in severe personal injury, equipment damage or system shutdowns. Use independent hardware and/or mechanical interlocks for critical alarms and the related control/triggering devices.
Installation	
 WARNING	• Install the product properly in indoor environments complying with the related specifications. • Install the product in environments free from strong magnetic field, direct sunlight, high temperature, inflammable gases, vapors, and dust. Failure to comply may result in explosion. • Use the product in environments without drastic temperature changes or high humidity. Failure to comply may result in water condensation inside the product, leading to equipment damage. • Securely connect all cables to the product. Loose connection may result in wrong I/O signals.
 CAUTION	• Install the product in environments with recommended storage temperature. Failure to comply may result in display faults of the LCD screen.

Wiring



- Before wiring, cut off all power supplies. Failure to comply may result in electric shock or damage to the circuit.
- Connect the DC power supply to the dedicated terminals specified in this guide.
- Prevent metal chippings or cable terminals from falling into the HMI during screw hole machining and wiring. Failure to comply may result in faults, fire, and component damage.
- After wiring, perform a meticulous inspection to ensure the operating voltage is correctly connected to the corresponding terminals. Failure to comply may result in fire or accident.



- To avoid electric shock, cut off the power supply before connecting the product to the power supply.
- The input power supply of this product must be 24 VDC. Power supplies outside $\pm 20\%$ of 24 VDC can cause severe damage to the product. Therefore, check whether the DC power supply provided by the switching-mode power supply is stable at a regular interval.

Operation and maintenance



- During use, touch the HMI panel with hands only. Failure to comply may result in panel damage, which is not covered by warranty.
- Retired lithium batteries, LCD screens, capacitors and other objects that may contain ingredients hazardous to health and environment must be disposed of as industrial waste.

Safety recommendations

- In the position where the operator directly touches the machinery part, for example, where a machinery tool is loaded/unloaded, or where a machine runs automatically, the on-site manual operating devices and any other alternative means must be carefully arranged and designed so that they are independent of the PLC and can start or terminate the automatic running of the system.
- If modification on the program is needed during system operation, use the lock function or other protective measures. Ensure that only authorized personnel can make the necessary modifications.

Battery use



- The battery model must be correct.
- Do not throw batteries into fire or hot ovens. Do not crush or cut batteries.
- Do not expose batteries to extremely high temperatures.
- Do not swallow batteries. Failure to comply can result in chemical burns.
- This product contains button batteries. If a button battery is swallowed by accident, severe internal burns may occur within two hours, which may result in death.



- Keep new and used batteries away from children.
- If the battery compartment cannot be shut tight, stop using the product and keep it away from children.
- If you suspect that a battery may have been swallowed or entered the body, seek medical help immediately.

Disposal



- Treat the scrapped product as industrial waste. Dispose of the battery according to local laws and regulations.

1.2 Industrial Information Security

The product provides interfaces to connect to the network and transmit data through the network interfaces. In order to protect factories, systems, machines and networks from network attacks and ensure their safe operation, implement appropriate industrial information security protection mechanisms.

The customer is responsible for providing and continuously ensuring a secure connection between the product and the network to prevent unauthorized access to its factories, systems, machines and networks. The system can only be connected to the corporate network or the Internet if it is connected securely and appropriate security measures are in place (for example, using anti-virus software and a firewall).

Inovance continuously develops and improves products and solutions to improve safety. It is strongly recommended that you update the product promptly and always use the latest version.



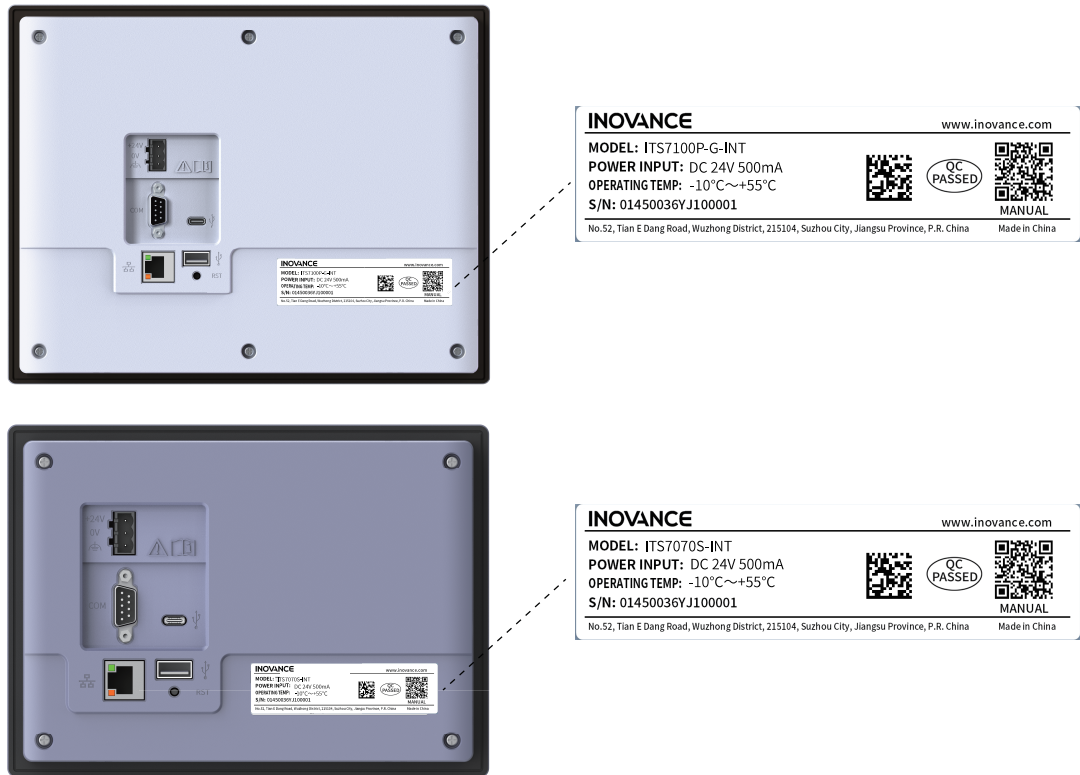
Tampering with software (such as viruses, Trojans, and Worms) can lead to unsafe drive state, which can put the device in an unsafe operation state. This may result in death, serious injury, and property damage. Observe the following strictly.

- Always use the latest software version. If the product version is no longer supported or the latest version of the program is not applied, customers are at increased risk of cyber-attacks.
- Take proper protection measures (including but not limited to deploying anti-virus software, firewall, WAF, IPS/IDS, situational awareness system, ID verification, and data encryption) to prevent files in the mobile storage device from being damaged by malware and protect products, networks, systems, and interfaces from unauthorized access, disturbance, intrusion, data disclosure, or information theft.
- Check all safety-related interfaces and settings after commissioning.

2 Product Information

2.1 Nameplate and Model

Nameplate



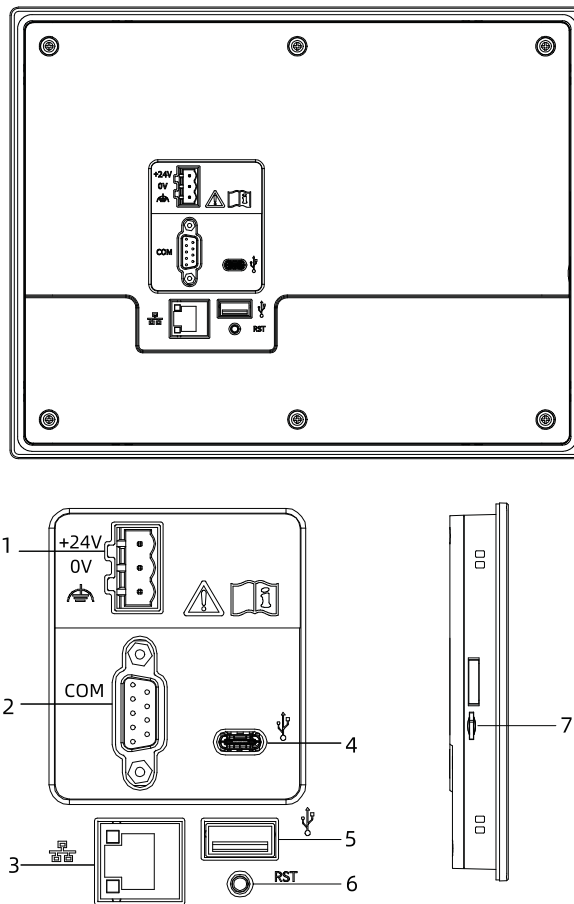
Model

ITS 7 070 E H - G - INT
① ② ③ ④ ⑤ ⑥ ⑦

① Product Type ITS: Economic HMI	② Product Series 7: 7000 series	③ Screen Dimensions 070: 7-inch 100: 10-inch
④ Performance Type S: Standard performance E: Enhanced performance P: Professional performance	⑤ Screen Type Null: Standard-definition (SD) resistive touch screen H: High-definition (HD) resistive touch screen	⑥ Color Null: Default color G: Gray
⑦ Customer Code Null: None INT: International version	-	

2.2 Components

Take the ITS7100P-G-INT model as an example for component description. Actual product components of other models may vary.



No.	Component	Description
1	Power supply interface	24 VDC input interface of the power supply
2	DB9 male connector	Supports COM1, COM2, and COM3 serial communication interfaces • COM1: RS422/485 interface • COM2: RS232 interface • COM3: RS485 interface (not available in models ITS7070S-INT, ITS7070S-G-INT, ITS7070SH-INT, and ITS7070SH-G-INT)
3	Ethernet interface	Ethernet communication interface (RJ45) used to access the PLC with a LAN port or PC. This interface is not available in models ITS7070S-INT, ITS7070S-G-INT, ITS7070SH-INT, and ITS7070SH-G-INT.
4	USB type-C interface	Slave interface for USB communication, used to download or update HMI programs
5	USB type-A interface	Master interface for USB communication, used to connect to a barcode scanner, USB drive, mouse, or keypad.
6	RST	System reset button
7	SD card interface	Insert a Micro SD card into this interface for data read/write and engineering file download (supported on models ITS7100P-INT and ITS7100P-G-INT only).

2.3 Technical Specifications

Table 2-1 Specifications of gray-color models

Item	ITS7070S-G-INT	ITS7070SH-G-INT	ITS7070E-G-INT	ITS7070EH-G-INT	ITS7100P-G-INT
Screen					
Dimension	7"				10"
Resolution	800 x 480	1024 x 600	800 x 480	1024 x 600	1024 x 600
Brightness	350 cd/m ²	500 cd/m ²	350 cd/m ²	500 cd/m ²	350 cd/m ²
Color depth	16.7 million different colors				
Backlight source	LED				
Display type	Horizontal screen, vertical screen				
Backlight lifetime	35000h	30000h	35000h	30000h	30000h
Touchscreen type	4-wire resistor type				
Performance					
CPU	Dual-core Cortex-A7				Quad-core Cortex-A7
DRAM	128 MB				256 MB
Flash	128 MB				256 MB
RTC	Supported				
Interface					
Ethernet	/		One Ethernet interface supporting adaptive transmission speeds of 10 Mbit/s and 100 Mbit/s		
Serial port	COM1 (RS485/RS422) COM2 (RS232)		COM1 (RS485/RS422) COM2 (RS232) COM3 (RS485)		
USB Type-C	Number: 1				
USB Type-A	Number: 1 Speed standard: USB 2.0 Supports FAT32 (with a maximum capacity of 32 GB and a single file size limit of 4 GB) and exFAT file systems				
SD card	Not supported				Supported Supports FAT32 (with a maximum capacity of 32 GB and a single file size limit of 4 GB) and exFAT file systems
Electrical specifications					
Rated input voltage	24 VDC (operating range: 9 VDC to 28 VDC)				
Rated input current (@24 VDC)	360 mA				500 mA
Structure					
Enclosure color	Gray				
Enclosure material	Engineering plastics				

Item	ITS7070S-G-INT	ITS7070SH-G-INT	ITS7070E-G-INT	ITS7070EH-G-INT	ITS7100P-G-INT
Mounting hole dimension (mm)	192 x 138				260 x 202
Outline dimension (mm)	203 x 149 x 33				271 x 213 x 33
Max. thickness of the mounting plate	6.5 mm				
Weight	0.55 kg				1.1 kg
Environment					
Operating temperature	-10°C to +55°C				
Storage temperature	-20°C to +60°C				
Transportation temperature	-40°C to +70°C				
Operating humidity	< 95% RH (without condensation)				
Cooling method	Natural cooling				
Max. altitude	< 2000 m				
Panel IP rating	Front panel: IP66; Rear cover: IP20				

Table 2-2 Specifications of default-color models

Item	ITS7070S-INT	ITS7070SH-INT	ITS7070E-INT	ITS7070EH-INT	ITS7100P-INT
Screen					
Dimension	7"				10"
Resolution	800 x 480	1024 x 600	800 x 480	1024 x 600	1024 x 600
Brightness	350 cd/m ²	500 cd/m ²	350 cd/m ²	500 cd/m ²	350 cd/m ²
Color depth	16.7 million different colors				
Backlight source	LED				
Display type	Horizontal screen, vertical screen				
Backlight lifetime	35000h	30000h	35000h	30000h	30000h
Touchscreen type	4-wire resistor type				
Performance					
CPU	Dual-core Cortex-A7				Quad-core Cortex-A7
DRAM	128 MB				256 MB
Flash	128 MB				256 MB
RTC	Supported				
Interface					
Ethernet	/		One Ethernet interface supporting adaptive transmission speeds of 10 Mbit/s and 100 Mbit/s		
Serial port	COM1 (RS485/RS422) COM2 (RS232)		COM1 (RS485/RS422) COM2 (RS232) COM3 (RS485)		
USB Type-C	Number: 1				

Item	ITS7070S-INT	ITS7070SH-INT	ITS7070E-INT	ITS7070EH-INT	ITS7100P-INT
USB Type-A	Number: 1 Speed standard: USB 2.0 Supports FAT32 (with a maximum capacity of 32 GB and a single file size limit of 4 GB) and exFAT file systems				
SD card	Not supported				Supported Supports FAT32 (with a maximum capacity of 32 GB and a single file size limit of 4 GB) and exFAT file systems
Electrical specifications					
Rated input voltage	24 VDC (operating range: 9 VDC to 28 VDC)				
Rated input current (@24 VDC)	360 mA				500 mA
Structure					
Enclosure color	Black				
Enclosure material	Engineering plastics				
Mounting hole dimension (mm)	192 x 138				260 x 202
Outline dimension (mm)	203 x 149 x 33				271 x 213 x 33
Max. thickness of the mounting plate	6.5 mm				
Weight	0.55 kg				1.1 kg
Environment					
Operating temperature	-10°C to +55°C				
Storage temperature	-20°C to +60°C				
Transportation temperature	-40°C to +70°C				
Operating humidity	< 95% RH (without condensation)				
Cooling method	Natural cooling				
Max. altitude	< 2000 m				
Panel IP rating	Front panel: IP66; Rear cover: IP20				

Note

Transport at the extreme temperatures (-40°C/+70°C) may result in a slight bulge of the membrane. The bulge disappears automatically at room temperatures, which does not affect normal use.

3 Mechanical Design

3.1 Installation Requirements

Precautions

Before installation, ensure that the product has been powered off.

- To avoid damage to the controller, do not drop or strike on the product enclosure, terminal block, or connector.
- Do not disassemble the controller. Otherwise the controller may be damaged.
- Do not fasten with excessive torque to avoid damage to the terminal.

Environmental requirements

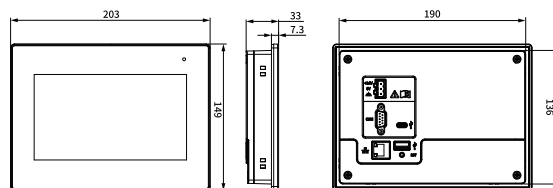
This product is designed to operate in a temperature range between -10°C to +55°C, exceeding of which may result in damage to the HMI components, malfunction, or performance degradation. For use in special environments, contact Inovance.

- Do not install the HMI in environments suffering from strong mechanical vibration.
- Install the HMI in the panel with a depth of over 100 mm and reserve a surrounding clearance of at least 25 mm.
- Install the HMI away from cables and devices that generate strong interference, such as AC power supply cables, PLC output modules, AC drives, and relays. Use shielded cables for input and output, and ground them properly.
- The front panel of the HMI complies with the IP66 requirements. Install the product properly in a cabinet that complies with the IP66 requirements.

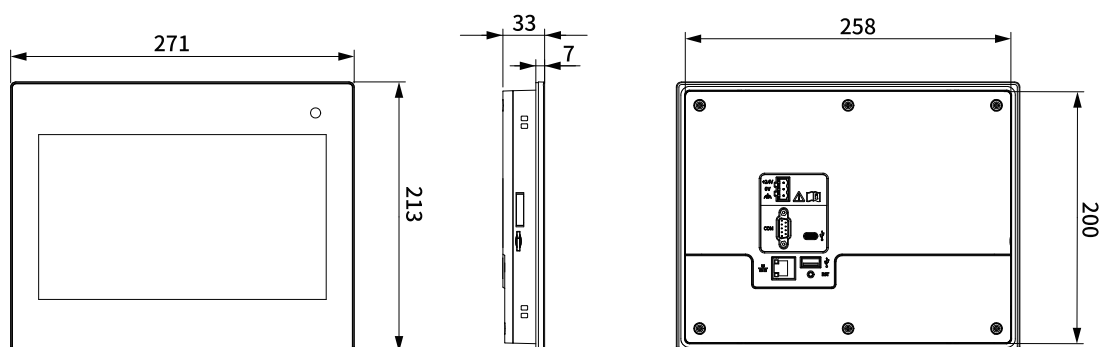
3.2 Installation Dimensions

The following figure shows the product dimensions.

- 7-inch HMIs



- 10-inch HMIs

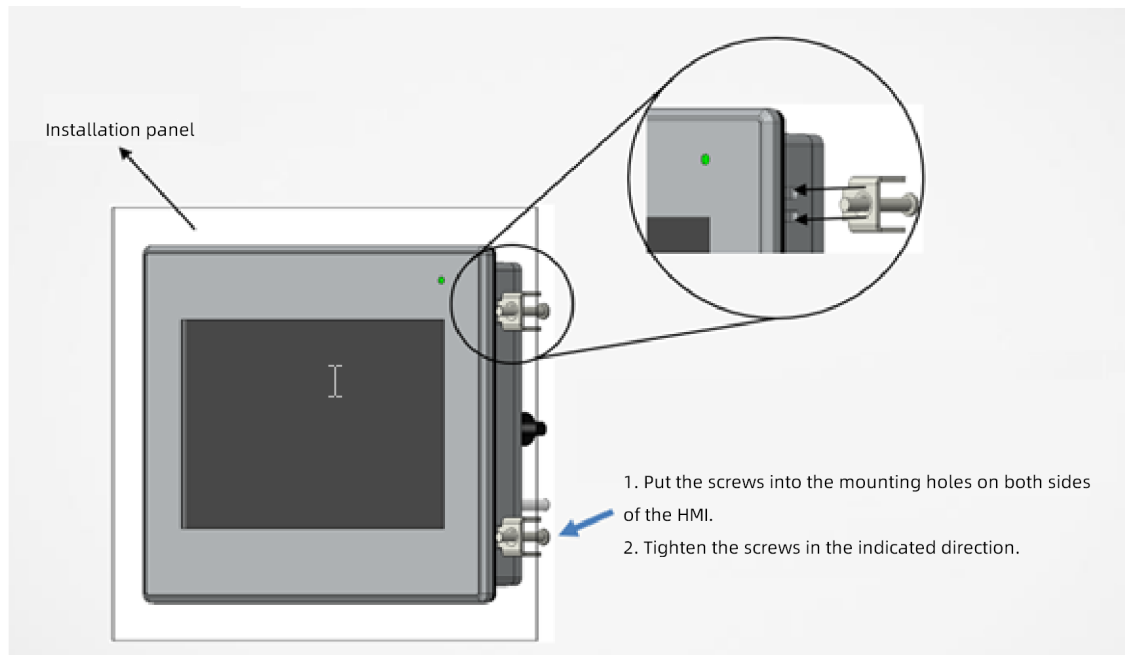


Model	Display Dimension	Outline Dimension W x H x D (mm)	Installation Dimension A x B (mm)	Recommended Mounting Hole Dimension	
				A + 2 (mm)	B + 2 (mm)
ITS7070S-G-INT	7"	203 x 149 x 33	190 x 136	192	138
ITS7070SH-G-INT					
ITS7070E-G-INT					
ITS7070EH-G-INT					
ITS7070S-INT					
ITS7070SH-INT					
ITS7070E-INT					
ITS7070EH-INT					
ITS7100P-INT	10"	271 x 213 x 33	258 x 200	260	202
ITS7100P-G-INT					

3.3 Installation Method

The products described in this guide support through-hole installation, as shown below.

1. Put the HMI into the pre-drilled mounting holes on the panel.
2. From the back of the panel, put the 4 metal clips provided with the product into the 4 corresponding mounting holes on both sides of the HMI.
3. Put the 4 screws into each mounting hole and tighten them until the HMI is firmly fixed on the panel. Recommended tightening torque: 6.0 ± 0.5 kgf/cm (to achieve waterproof effect and prevent deformation)



 Caution

To comply with IP66 sealing specifications, ensure all the metal clips and screws delivered (accessories of Inovance, ordering code: 80240221) are used and the curvature of the panel is no greater than 0.010° after installation.

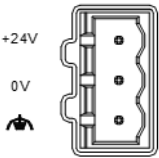
 Warning

The mounting screws must be tightened with a proper torque. If you have any question, contact the supplier.

4 Electrical Design

4.1 Power Supply Interface

The following figure shows connection of the power supply interface.

Diagram	Terminal	Description
	+24V	Connects to the positive pole of the power supply
	0V	Connects to the negative pole of the power supply
		Grounding

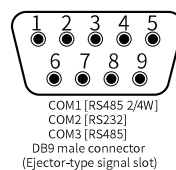
Inovance provides a full set of accessories for the power supply interface and installation of the product, as shown in the table below.

Type	Number	Applicable HMI	Ordering Code
Power supply terminal	1	ITS7000 series HMIs with 7" and 10" screens	80240221
Metal snap-fit joint (with screw)	4		
Packing bag	1		

4.2 DB9 Interface and Communication Cables

DB9 male connector

This product provides one DB9 communication interface (DB9 male) and one to three built-in serial communication interfaces for connecting the PLC, AC drive, printer or other intelligent devices. The product is built-in with multiple communication protocols and usually acts as the communication master to access the data in external devices. The following figure shows the pinout and silk printing of the DB9 male connector.



The DB9 male connector is built-in with three serial communication ports – COM1, COM2, and COM3. The pins are described in the following table.

No.	Signal			
	COM1[RS485] 2 Wires	COM1[RS485] 4 Wires	COM2[RS232]	COM3[RS485]
1	-	-	-	RS485-
2	-	-	RS232 RXD (receive data)	-
3	-	-	RS232 TXD (transmit data)	-
4	-	TX+ (transmit positive)	-	-
5	GND (signal ground)			
6	-	-	-	RS485+

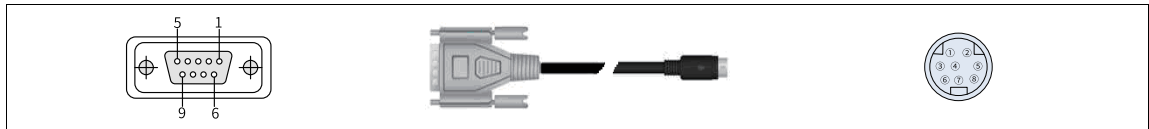
No.	Signal			
	COM1[RS485] 2 Wires	COM1[RS485] 4 Wires	COM2[RS232]	COM3[RS485]
7	RS485-	RX- (receive negative)	-	-
8	RS485+	RX+ (receive positive)	-	-
9	-	TX- (transmit negative)	-	-

Note

- COM1 [RS485] interface with four wires is equivalent to COM1 [RS422] interface.
- The COM3 interface is not available in models ITS7070S-INT, ITS7070S-G-INT, ITS7070SH-INT, and ITS7070SH-G-INT.

Communication cable for DB9 male connector

Inovance provides prefabricated communication cable options for DB9 male connector on this product (model: IT7-H3U-CAB, ordering number: 1504AX53).



Cable Connector and Pin	DB9 Female Connector		8-Pin DIN Round Connector	
Signal level	RS422		RS422	
-	No.	Signal	No.	Signal
Internal connection of the cable	7	RX-	4	TX-
	8	RX+	7	TX+
	9	TX-	1	RX-
	4	TX+	2	RX+
	5	GND	3	GND
Applicable HMI and interface	All models of the ITS7000 series HMIs		Inovance H1U/H2U/H3U RS422 communication interface Mitsubishi FX1N/2N/3U/3G RS422 communication interface	
HMI user program setting for cable use	In the HMI user project, set the COM1 interface to "RS422/RS485". The HMI and PLC must be set with the same communication protocol and data format.			

Note

1. Cable requirements: Different cables are required for connection of different external devices. Do not lay the communication cables together with the AC power cables or near electrical noise source. Do not plug/remove the communication cables during communication.
2. To avoid communication problems, ensure that the communication cable does not exceed 150 m when connecting RS485/422 devices.
3. In case of communication failure, the screen keeps displaying "Connection failed: connection_1, station 1. Err: 1" until the communication is established.
4. If the communication cable is long or passes through an environment with electrical noise, use a shielded cable.

4.3 Ethernet Interface

Item	Specification
Applicable model	ITS7070E-G-INT, ITS7070EH-G-INT, ITS7070E-INT, ITS7070EH-INT, ITS7070S-INT, ITS7070SH-INT, ITS7100P-INT, and ITS7100P-G-INT
Number of output channels	1
Output connection mode	Standard Ethernet interface (no indicator for RJ45)
Output type	Ethernet
Output speed	Adaptive speed of 10 Mbps and 100 Mbps
Communication distance	Network cables of Cat5e or higher, 100 m
Master/Slave	Both supported

4.4 USB Interface

USB type-A interface

Item	Specification
Applicable model	All models of the ITS7000 series HMIs
Number of output channels	1
Purpose	Used to connect barcode scanner, USB drive, mouse, and keypad
Communication rate	USB 2.0 full speed
Document Type	Supports FAT32 (with a maximum capacity of 32 GB and a single file size limit of 4 GB) and exFAT file systems
Communication distance	1.5 m
Power supply for external devices	5 V/500 mA
Short circuit protection	Supported
Master/Slave	Master

USB type-C interface

Item	Specification
Applicable model	All models of the ITS7000 series HMIs
Number of output channels	1
Purpose	Used to download or update HMI programs
Communication rate	USB 2.0 full speed
Communication distance	1.5 m
Short circuit protection	Not supported
Master/Slave	Slave

5 Touch Screen Calibration

Troubleshooting

In case of unresponsive or abnormal touch faults, check and address the following:

- Check if the protective film on the surface of the touchscreen is not removed. If so, remove the protective film before use.
- Check if the fixing screws are over-tightened during product installation, resulting in unresponsive or abnormal touch faults. If so, loosen the screws to the recommended tightening torque ($6.0 \pm 0.5 \text{ kgf} \cdot \text{cm}$) before use.

Calibration

After troubleshooting, the touch calibration program can be used for calibration. The procedure is as follows.

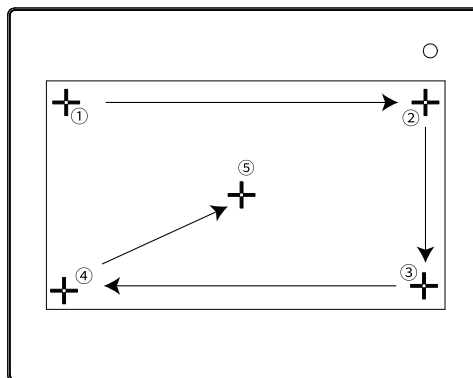
1. Calibration program entry

Power on the HMI. When the screen prompts for entering the configuration interface long-pressing, press and hold the screen until the release prompt appears. Enter the system password and click "Calibration" in the pop-up system configuration menu.

2. Detailed steps for calibration

- After entering the calibration mode, "⦶" is shown in the upper left corner of the screen (as shown below).
- Use the stylus or your finger to tap the center of "⦶". After tapping, "⦶" moves in the direction indicated by the arrows below. Tap each point where "⦶" moves.
- After the 5-point calibration is completed, "⦶" will disappear. Tap the blank space of the screen to exit; if the calibration fails, "⦶" will return to the upper left corner of the screen and you must repeat the calibration.

The calibration process is shown below.



Service and Support

Should you encounter a safety accident during the use or operation of the product, or face challenges in operating and maintaining the equipment, which remain unresolved after the relevant documentation is consulted, we provide multiple channels to ensure prompt resolution:

- Channel #1: Contact service@inovance.com.
- Channel #2: Visit <https://www.inovance.com/global> to access document downloads, after-sales support, spare parts ordering, repair applications, and authenticity verification services.
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