

HCiX Series

Touch Panel Operator Interface

Specification

Overview

HCiX series operator interfaces allow operator to access all controller functions through custom graphics and touch screen interface on color LCD display.

HCiW 04 – T

T : 4.3" Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

HCiX 05 – T

T : 5.7" Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

HCiW07 – T

7" Wide Color TFT LCD (65,535 colors)
Touch Screen (Analog/Resistive Type)

HCiX 08 – T / HCiW 08 – Q

8.4" Color TFT LCD (65,535 colors)
Touch Screen (Analog/Resistive Type)

HCiX 10 – T

10.4" Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

HCiW 10 - T

10.2" Wide Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

HCiX 12 - T

12.1" Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

HCiX 15 – T

15.0" Color TFT LCD (65,536 colors)
Touch Screen (Analog/Resistive Type)

Features

- **Color TFT LCD (HCiX 05/08/10/12 /15, HCiW07/08/10)**

Color TFT LCD is standard on all HCiX models. It is a high quality display with wide viewing angle. It provides up to 65,536 real colors.

- **Touch Screen (Resistive Type)**

Operator can do changes to parameters by touching the screen directly. It offers

much easier operation than the conventional keyboard.

- **Processor - 32 bit RISC CPU**

The HCiX uses a 32 bit RISC CPU for high speed graphic processing

- **IP65F Front Enclosure**

Front face is IP65F rated to permit use in tough applications where the HCiX is subjected to moisture, dust etc.

- **Communication**

RS-232C and RS-422/485 serial ports and Ethernet are standard features. Additionally Profibus communication adapter is also supported. Custom interface designs can be downloaded via RS-232C, Ethernet and USB communication and by using USB devices(memory, printer).

- **Data storage(option)**

HCiX support CF/SD Card and USB memory interface to log high capacity

data. The logged data can be analyzed and printed via MS Excel or CSV file viewer program.

- **Multi-Language Support**

Language selection can be made on screen. English/Korean/Chines, and be used Fonts of Windows system.

- **Designing Tool(XDesignerPlus)**

XDesignerPlus software is offered as standard package. Custom designed graphics can be variables, and those variables can be selected without register addressing.

- **Various Objects (Tags)**

HCiX designer offers wide verity of design tools such as numeric, lamp, message, alarm, keypad, graph, animation, slides, window etc. It makes the design of displays (Monitoring / Operating) a breeze.



Specifications

MODEL	HCIW 04-TE	HCIX 05 - TE	HCiU 05 - TE	HCiX 08 – TE
Screen Size	4.3", Wide	5.7 "	5.7 "	8.4 "
Resolution	480 x 272	320 x 240	640 x 480	800 x 600
LCD Color	TFT 65,536 Colors	TFT 65,536 Colors	TFT 65,536 Colors	TFT 65,536 Colors
Brightness	350 cd / m ²	450 cd / m ²	450 cd / m ²	350 cd / m ²
Touch Type	Analog	Analog	Analog	Analog
Touch Cell	480 x 272	320 x 240	640 x 480	800 x 600
CPU	32 bit RISC	32 bit RISC	32 bit RISC	32 bit RISC
Flash Memory	6MB	6MB	6MB	26MB
Operating Power	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)
Power Consumption	Max. 15 W	Max. 15 W	Max. 15 W	Max. 15 W
Operating Temperature	-10 – 60 °C	-10 – 60 °C	-10 – 60 °C	-10 – 60 °C
Storage Temperature	-20 – 70 °C	-20 – 70 °C	-20 – 70 °C	-20 – 70 °C
Ambient Humidity	Below 85% RH	Below 85% RH	Below 85% RH	Below 85% RH
Approvals	CE, UL	CE, UL	CE, UL	CE, UL
Front Enclosure	IP65F	IP65F	IP65F	IP65F
Insulation Resistance	10 MΩ	10 MΩ	10 MΩ	10 MΩ
Ground	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω
Noise Endurance (impulse)	1000 Vp-p (pulse width 1μs)	1000 Vp-p (pulse width 1μs)	1000 Vp-p (pulse width 1μs)	1000 Vp-p (pulse width 1μs)
Vibration Endurance (X-Y-Z 1G)	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz
Internal Communication	RS-232C -	RS-232C USB	RS-232C USB	RS-232C USB
External Communication	RS-232C RS-422/485 - -	RS-232C RS-422/485 Ethernet(10/100Base-T) -	RS-232C RS-422/485 Ethernet(10/100Base-T) -	RS-232C RS-422/485 Ethernet(10/100Base-T) Profibus (Option)
Data storages	- -	Compact Flash Memory USB Storage	Compact Flash Memory USB Storage	Compact Flash Memory USB Storage
Printer	Roll Printer(RS232) -	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)
External Dimension (W x H x D)		170 x 138 x 60 (mm) 6.69 x 5.43 x 2.36(inch)	232 x 177 x 60 (mm) 9.13 x 6.97 x 2.36(inch)	232 x 177 x 60 (mm) 9.13 x 6.97 x 2.36(inch)
Weight (kg)		0.7	1.3	1.3

Specifications

MODEL	HCiW 07 - TE	HCiW 07 - TV	HCiW 08 - QE	HCiW 08 - QV
Screen Size	7.0" wide	7.0" wide	8.4"	8.4 "
Resolution	800 x 480	800 x 480	640 x 480	640 x 480
LCD Color	TFT 65,536 Colors	TFT 65,536 Colors	TFT 65,536 Colors	TFT 65,536 Colors
Brightness	350 cd / m ²	350 cd / m ²	400 cd / m ²	400 cd / m ²
Touch Type	Analog	Analog	Analog	Analog
Touch Cell	800 x 480	800 x 480	640 x 480	640 x 480
CPU	32 bit RISC	32 bit RISC	32 bit RISC	32 bit RISC
Flash Memory	26MB	26MB	26MB	26MB
Operating Power	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)
Power Consumption	Max. 15 W	Max. 15 W	Max. 15 W	Max. 15 W
Operating Temperature	-10 – 60 °C	-10 – 60 °C	-10 – 60 °C	-10 – 60 °C
Storage Temperature	-20 – 70 °C	-20 – 70 °C	-20 – 70 °C	-20 – 70 °C
Ambient Humidity	Below 85% RH	Below 85% RH	Below 85% RH	Below 85% RH
Approvals	CE	CE	CE, UL	CE, UL
Front Enclosure	IP65F	IP65F	IP65F	IP65F
Insulation Resistance	10 MΩ	10 MΩ	10 MΩ	10 MΩ
Ground	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω
Noise Endurance (impulse)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)
Vibration Endurance (X-Y-Z 1G)	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz
Internal Communication	RS-232C USB	RS-232C USB	RS-232C USB	RS-232C USB
External Communication	RS-232C RS-422/485 Ethernet(10/100Base-T)	RS-232C RS-422/485 -	RS-232C RS-422/485 Ethernet(10/100Base-T)	RS-232C RS-422/485 -
Data storages	SD card USB Storage	- USB Storage	Compact Flash Memory USB Storage	- USB Storage
Printer	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)
External Dimension (W x H x D)	206 x 136 x 44 (mm) 8.11 x 5.35 x 1.73(inch)	206 x 136 x 44 (mm) 8.11 x 5.35 x 1.73(inch)	232 x 177 x 60 (mm) 9.13 x 6.97 x 2.36(inch)	232 x 177 x 60 (mm) 9.13 x 6.97 x 2.36(inch)
Weight (kg)	0.9	0.9	1.3	1.3

Specifications

MODEL	HCiW 10 - TE	HCiW 10 - TV	HCiX 10 - TE
Screen Size	10.2 " Wide	10.2" Wide	10.4"
Resolution	800 x 480	800 x 480	800 x 600
LCD Color	TFT 65,536 Colors	TFT 65,536 Colors	TFT 65,536 Colors
Brightness	350 cd / m ²	350 cd / m ²	400 cd / m ²
Touch Type	Analog	Analog	Analog
Touch Cell	800 x 480	800 x 480	800 x 600
CPU	32 bit RISC	32 bit RISC	32 bit RISC
Flash Memory	26MB	26MB	26MB
Operating Power	24Vdc (DC 20 – 28 V)	24Vdc (DC 20 – 28 V)	AC 85 – 264 V
Power Consumption	Max. 20 W	Max. 20 W	Max. 20 W
Operating Temperature	-10 – 60 °C	-10 – 60 °C	-10 – 60 °C
Storage Temperature	-20 – 70 °C	-20 – 70 °C	-20 – 70 °C
Ambient Humidity	Below 85% RH	Below 85% RH	Below 85% RH
Approvals	CE, UL	CE, UL	CE
Front Enclosure	IP65F	IP65F	IP65F
Insulation Resistance	10 MΩ	10 MΩ	10 MΩ
Ground	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω
Noise Endurance (impulse)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)
Vibration Endurance (X-Y-Z 1G)	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz
Internal Communication	RS-232C USB	RS-232C USB	RS-232C USB
External Communication	RS-232C RS-422/485 Ethernet(10/100Base-T)	RS-232C RS-422/485 -	RS-232C RS-422/485 Ethernet(10/100Base-T) Profibus (Option)
Data storages	Compact Flash Memory USB Storage	- USB Storage	Compact Flash Memory USB Storage
Printer	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer Print with USB port(PCL Level 3 Language)
External Dimension (W x H x D)	270 x 212 x 58 (mm) 10.23 x 8.35 x 2.28 (inch)	270 x 212 x 58 (mm) 10.23x8.35x2.28 (inch)	305 x 239 x 58 (mm) 12.01 x 9.41 x 2.28 (inch)
Weight (kg)	1.9	1.9	2.3

Specifications

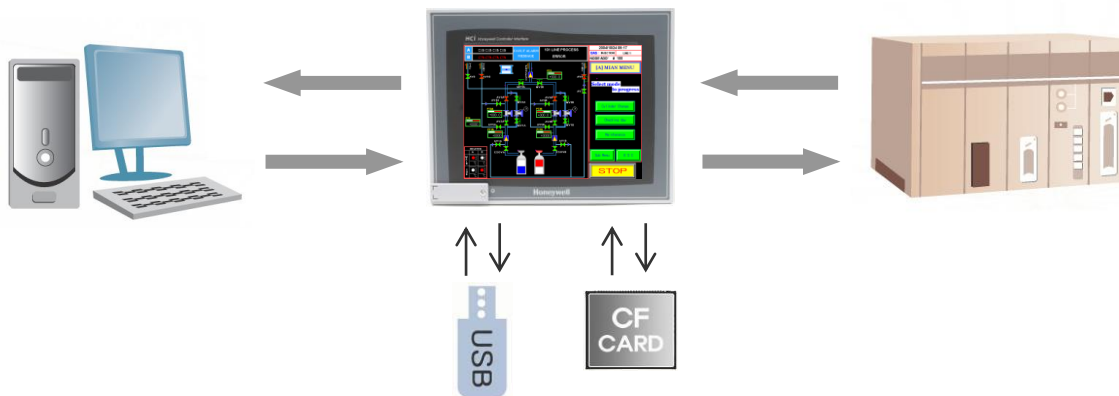
MODEL	HCiX 12 - TE	HCiX 15 – TE	Remark
Screen Size	12.1 "	15.0 "	
Resolution	800 x 600	1024 x 768	
LCD Color	TFT 65,536 Colors	TFT 65,536 Colors	
Brightness	380 cd / m ²	350 cd / m ²	
Touch Type	Analog	Analog	
Touch Cell	800 x 600	1024 x 768	
CPU	32 bit RISC	32 bit RISC	
Flash Memory	26MB	26MB	
Operating Power	AC 85 – 264 V	AC 85 – 264 V	
Power Consumption	Max. 20 W	Max. 25 W	
Operating Temperature	-10 – 60 °C	-10 – 60 °C	
Storage Temperature	-20 – 70 °C	-20 – 70 °C	
Ambient Humidity	Below 85% RH	Below 85% RH	
Approvals	CE	CE	
Front Enclosure	IP65F	IP65F	
Insulation Resistance	10 MΩ	10 MΩ	
Ground	Class 3 Grounding Resistance under 100Ω	Class 3 Grounding Resistance under 100Ω	
Noise Endurance (impulse)	1500 Vp-p (pulse width 1μs)	1500 Vp-p (pulse width 1μs)	
Vibration Endurance (X-Y-Z 1G)	10 ≤ F ≤ 25 Hz	10 ≤ F ≤ 25 Hz	
Internal Communication	RS-232C USB	RS-232C USB	
External Communication	RS-232C RS-422/485 Ethernet(10/100Base-T) Profibus (Option)	RS-232C RS-422/485 Ethernet(10/100Base-T) Profibus (Option)	
Data storages	Compact Flash Memory USB Storage	Compact Flash Memory USB Storage	
Printer	Roll Printer Print with USB port(PCL Level 3 Language)	Roll Printer -	
External Dimension (W x H x D)	316 x 257 x 58 (mm) 12.44 x 10.12 x 2.28 (inch)	366 x 296.5 x 58 (mm) 14.41 x 11.67 x 2.28 (inch)	
Weight (kg)	2.5	3.2	

CF Card and USB Memory Application

Data management system has been improved by using CF Card and USB Memory.

► Saving logged data(except HCiX07-TW)

Data logging: Data logged to HCiX is saved to a CF Card or USB Memory as a CSV file format and can be edited in a program like Microsoft Excel.



USB Interface Application

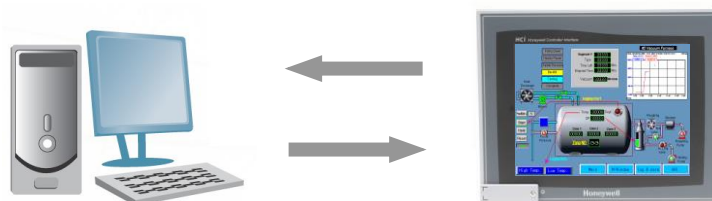
► Data transfer(Except HCiX07-TW)

A configuration file using PC, OS (Operating System), Character Font and Recipe can be saved to USB storage and the saved data can be transferred to other HCiX. The front USB port of HCiX supports much convenience for the above-mentioned functions.



► Download and Upload (USB Device)

A configuration file can be downloaded or uploaded by using USB Device port rapidly.



Connectable PLC List						
Maker	Series	CPU type	CPU Port	Link (I/F Module)	Multi-Drop (1:N)	Ethernet (1:1)
Honeywell	GH1000/500	GH1000/500			●	
	HC900	C30/C50/C70/C70R	●		●	●
	Master Logic	100R	●	◆	●	●
		200/50	●	◆	●	●
BACnet						●
Modicon (Schneider)	Modbus	884/984A/984B/984X		◆	●	
		Slot-mount984		◆	●	
	TWIDO	LCAA 10DRF	●	◆	●	
		LCAA 16DRF	●	◆	●	
		LCAA 24DRF	●	◆	●	
		LMDA 20DTK	●	◆	●	
		LMDA 20DUK	●	◆	●	
		LMDA 20DRT	●	◆	●	
		LMDA 40DTK	●	◆	●	
		LMDA 40DUK	●	◆	●	
		Modbus TCP				●
Rockwell (AB)	PLC5	PLC5/11/20/30/40/40 L/60/60L	●			
	SLC500	SLC5/03/04	●			
	Control Logix	1200/1756	●			
Siemens	SIMATIC S7-300	312IFM/313/314/315/315-2DF				●
Fieldbus	Profibus-DP			◆(Option)		

Note 1)

1. The CPU port is a case using the CPU communication ports of PLC.
2. The Link(I/F Module) is a case using the communication interface card to be added to PLC slot.
3. The Multi-Drop is a case which the 1:N communication is available.
4. For other interfaces(protocols), please ask to Honeywell.

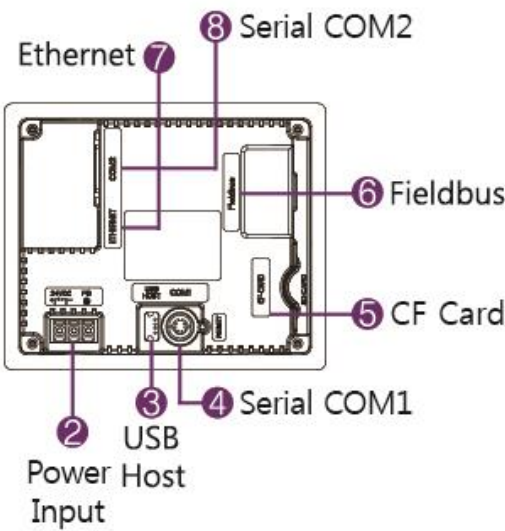
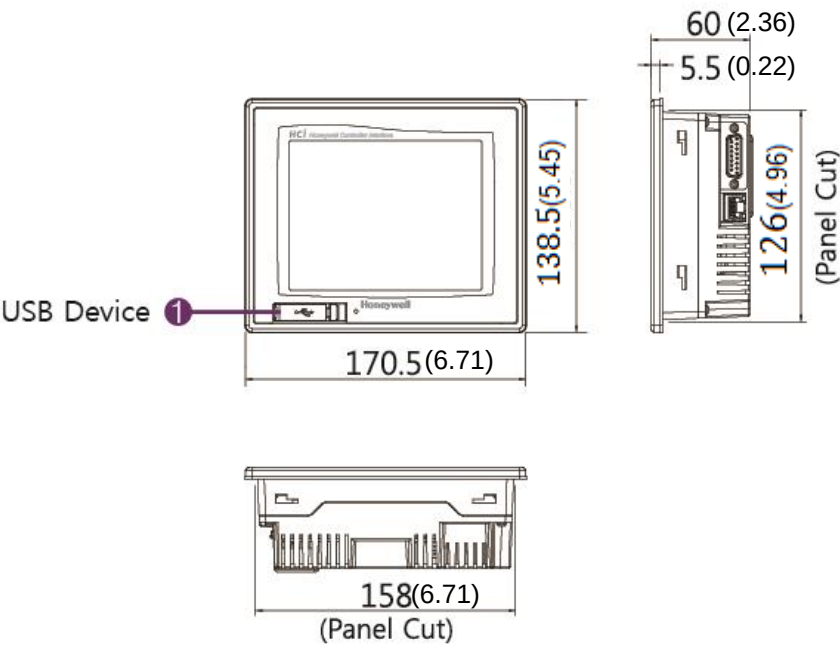
Note 2)

The connectable PLCs will be added continuously.

External Dimension

HCiX05 / HCU05

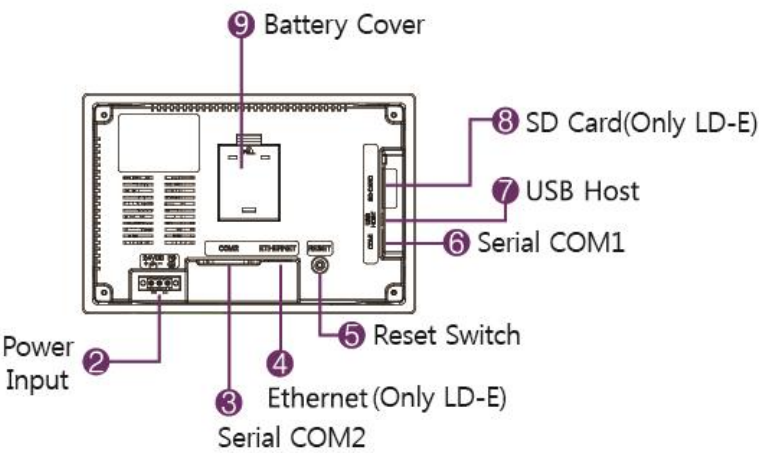
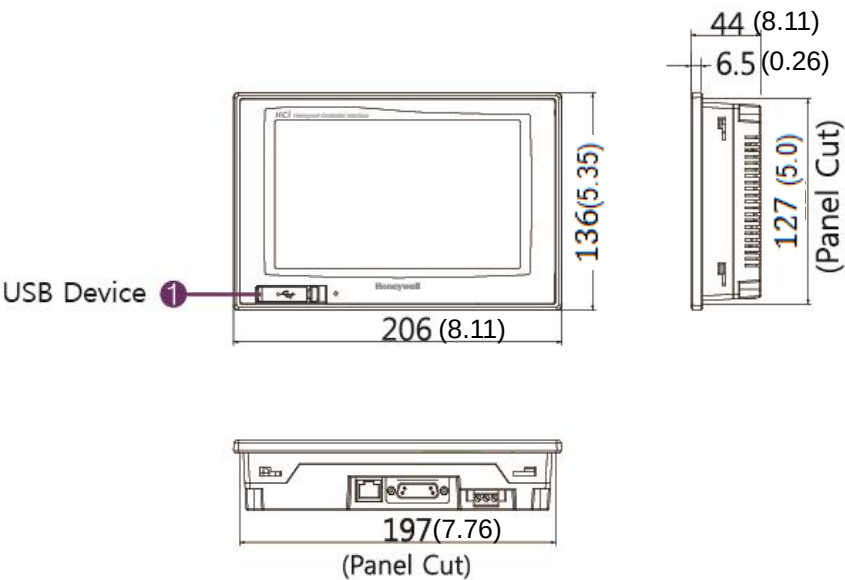
Unit : mm / inch



External Dimension

HCiW07-TE/TV

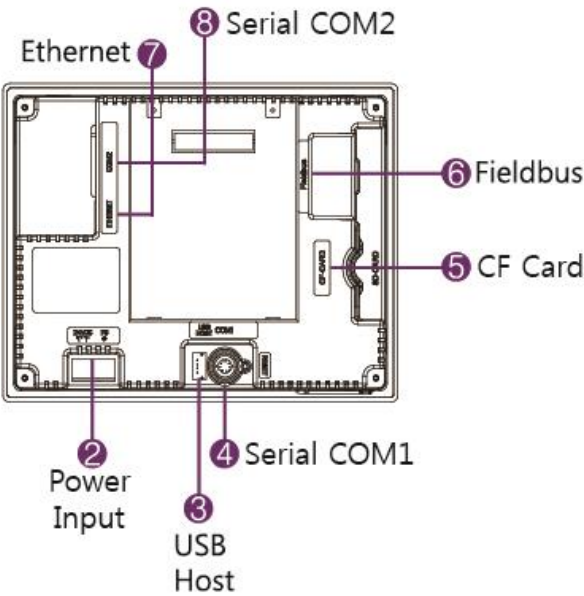
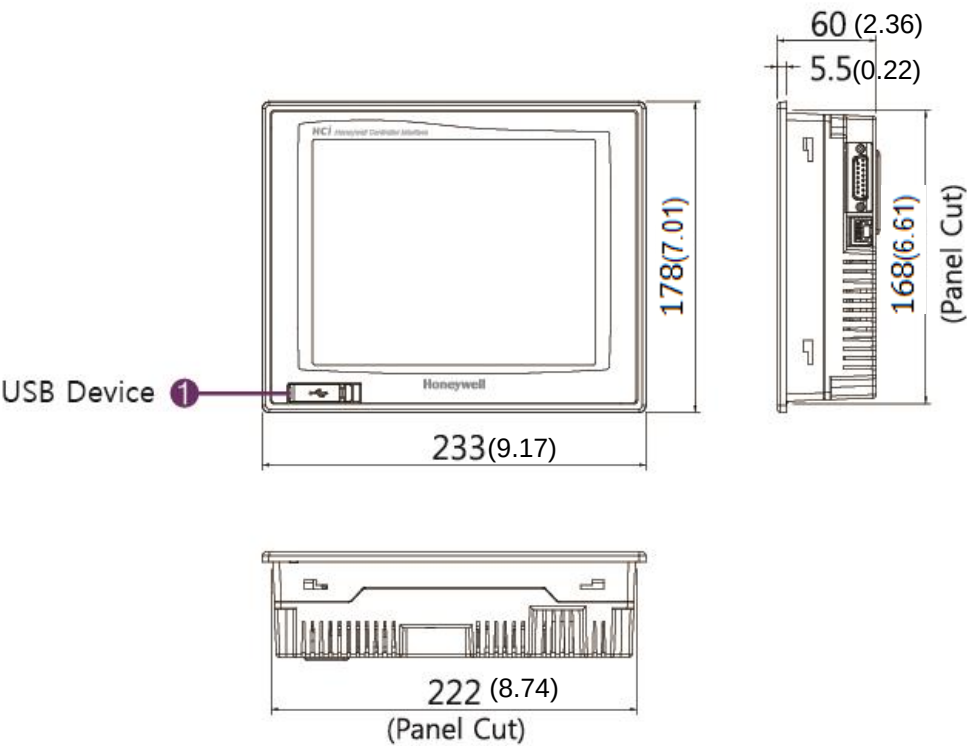
Unit : mm / inch



External Dimension

HCiX08 / HCiW08

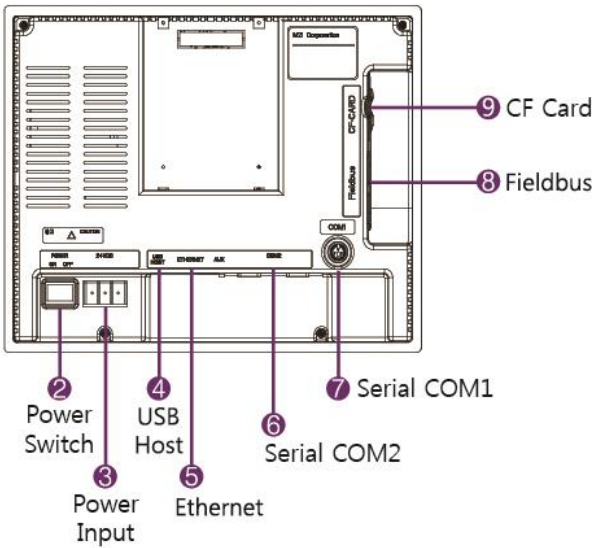
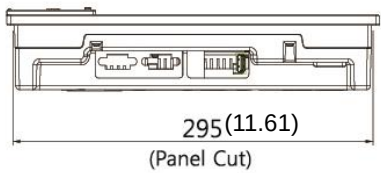
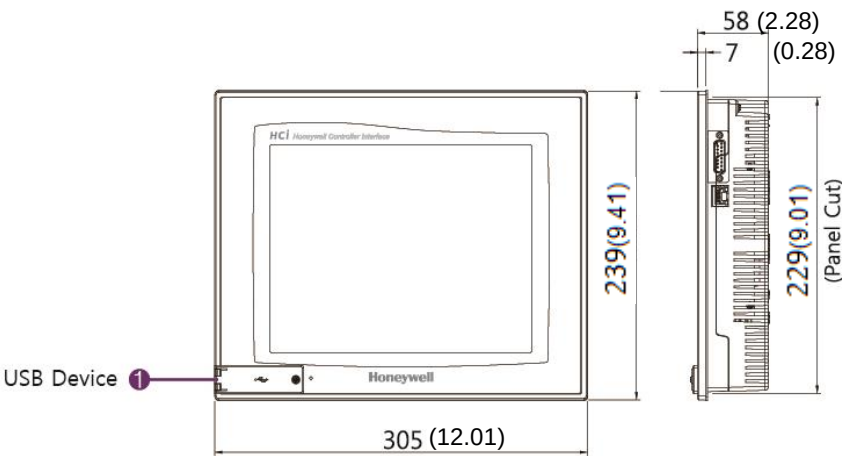
Unit : mm / inch



External Dimension

HCiX10

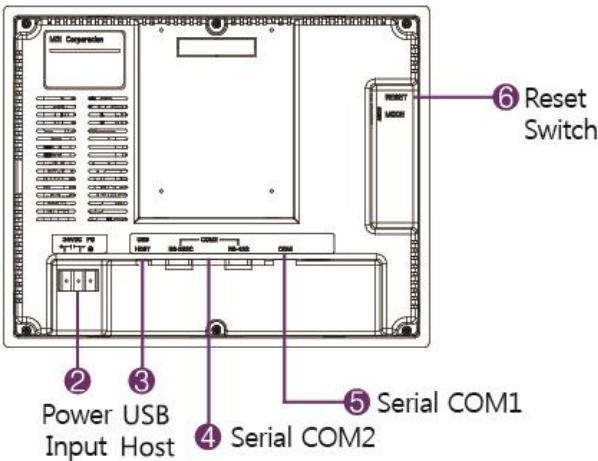
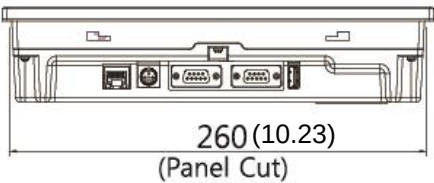
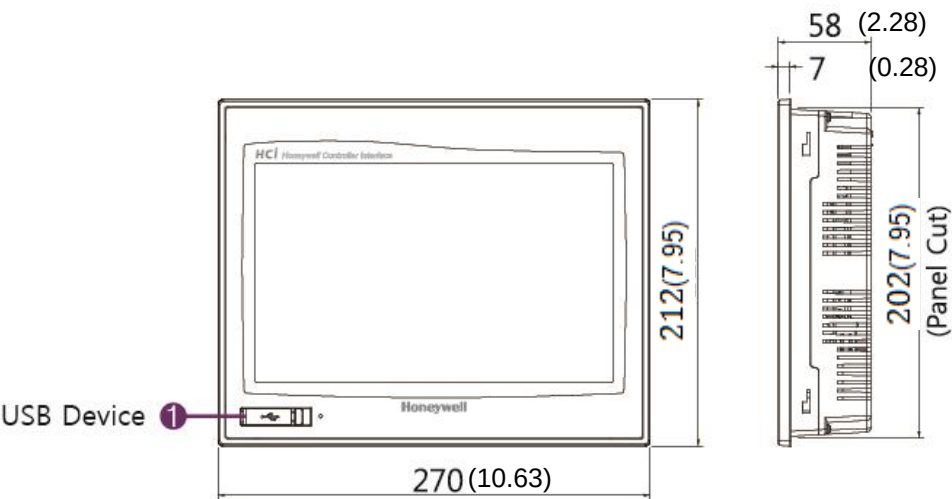
Unit : mm / inch



External Dimension

HCiW10

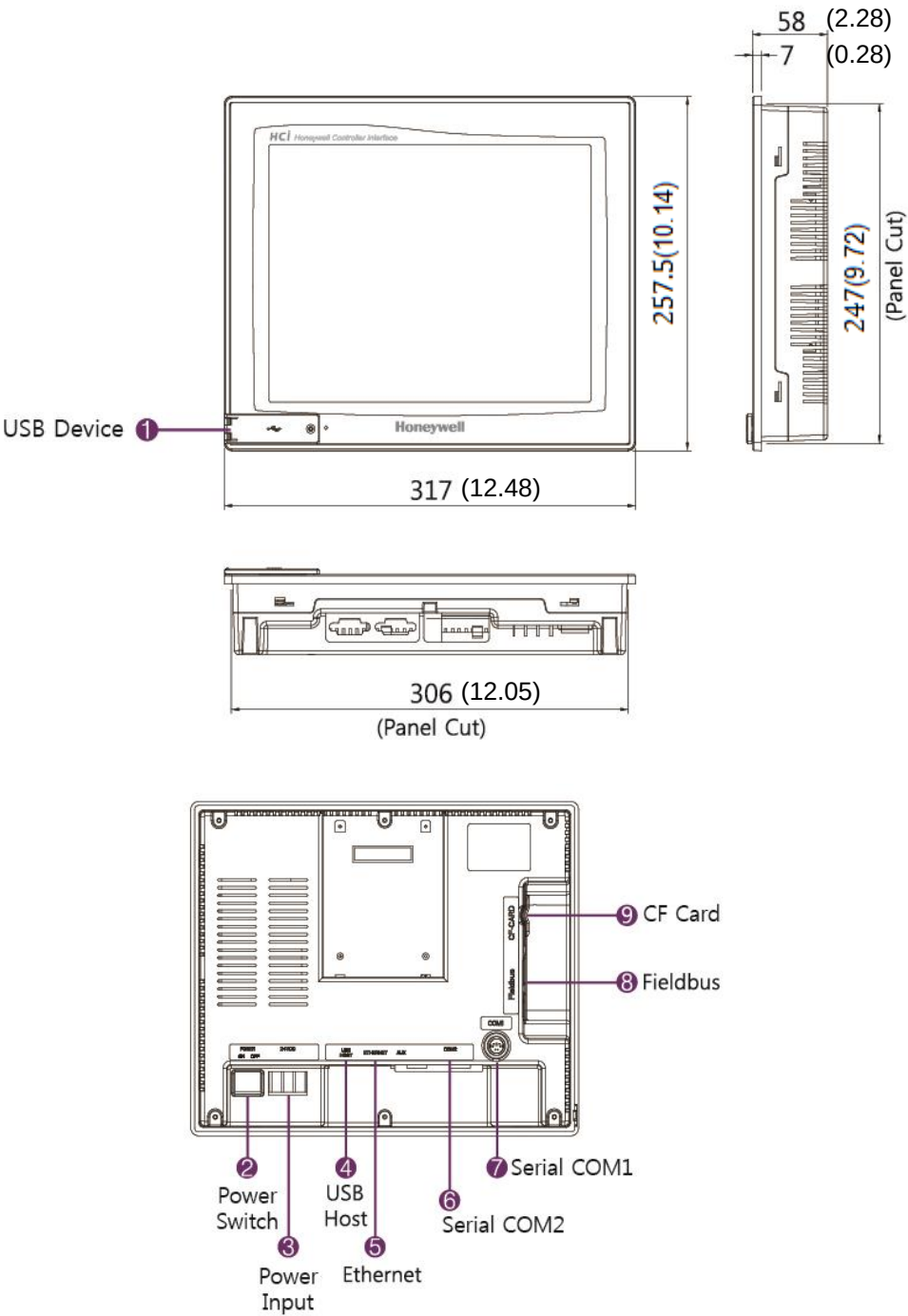
Unit : mm / inch



External Dimension

HCiX12

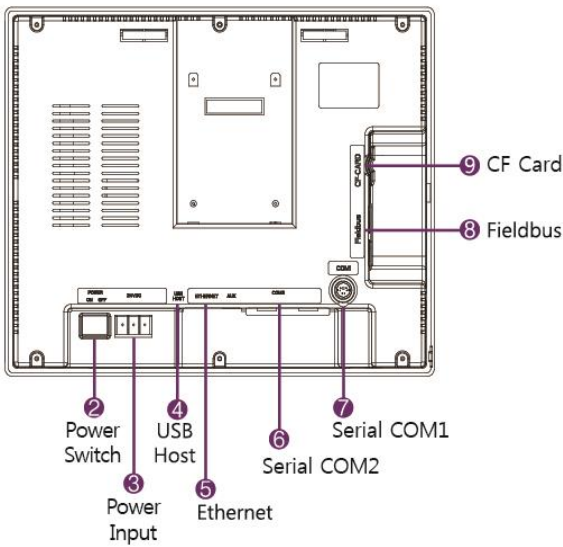
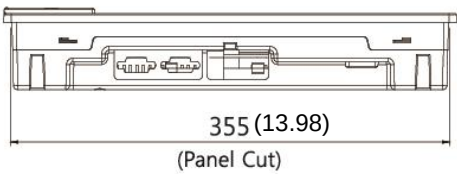
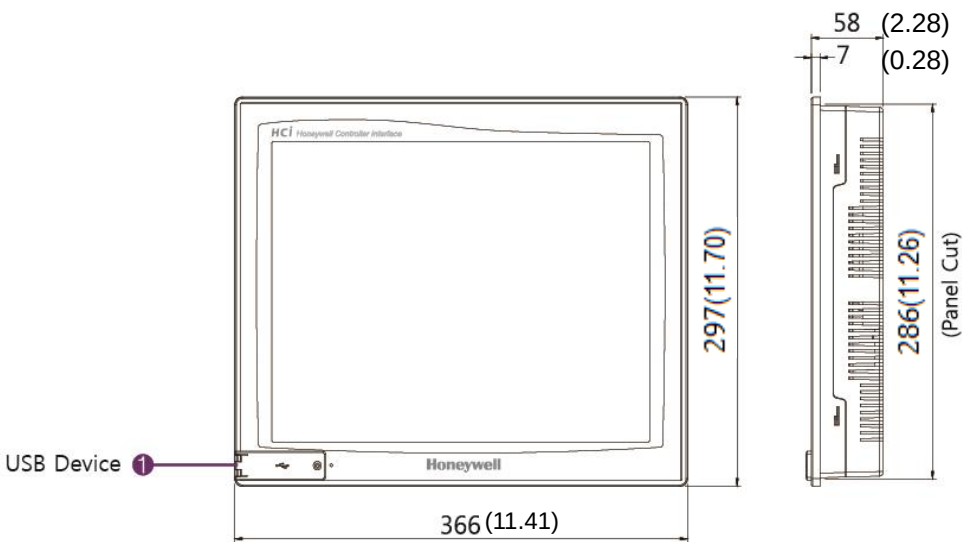
Unit : mm / inch



External Dimension

HCiX15

Unit : mm / inch



Panel Cutout

MODEL	HCiX05	HCiW07	HCiX08/ HCiW08	HCiX10	HCiW10	HCiX12	HCiX15
Panel Cutout							
W (mm) x H (mm)	158 x 126	199 x 129	222 x 168	295 x 229	258 x 200	307 x 247	355 x 286
W(inch) x H(inch)	6.22 x 4.96	7.83 x 5.08	8.74 x 6.61	11.61 x 9.02	10.15x7.87	12.09 x 9.72	13.98 x 11.26
Weight(KG)	0.7	0.8	1.3	2.3	1.9	2.5	3.2

Model Number Interpretation

Instruction

- Select the desired key number. The arrow to the right marks the selection available
- Make the desired selections from Table I through Table III using the column below the proper arrow.

A dot (•) denotes the availability

Key Number **Table I** **Table II** **Table III**
HCi - - -

KEY NUMBER

Description		Selection	Availability							
Display Size	5.7" (Note. 1)	HCiX 05	↓							
	7" Wide	HCiW 07		↓						
	8.4"	HCiX 08			↓					
	8.4" Wide	HCiW 08				↓				
	10.4"	HCiX 10					↓			
	10.2" Wide	HCiW 10						↓		
	12.1"	HCiX 12							↓	
	15.0"	HCiX 15								↓
LCD Type	MONO LCD	M _	•							
	TFT Color LCD(QVGA)	Q _				•				
	TFT Color LCD(SVGA)	T _	•	•	•		•	•	•	•
Communication	RS-232C, RS-485, Ethernet, USB, CF Card	_ E	•	•	•	•	•	•	•	•
	RS-232C, RS-485, USB	_ V		•		•		•		

TABLE II - Options

Front USB Port	None	N _								
	Front USB Port	F _	•	•	•	•	•	•	•	•
Operating Power	20 to 24 Vdc	_ D	•	•	•	•		•		
	85 to 264 Vac	_ A					a		a	a

TABLE III - COMMUNICATION OPTION & LANGUAGE

Communication Options	None	N _	•	•	•	•	•	•	•	•
	Profibus	P _			•		•		•	•
	Devicenet	D _								
	CC-Link	C _								
Future Option	English, Chinese	_ C	•	•	•	•	•	•	•	•
	English, Korean	_ K	•	•	•	•	•	•	•	•

ORDERING INSTRUCTIONS

- Orders may be placed only by model selection (not by part number)
- Orders placed by model selection are systematically protected against incompatibility.

Note 1. Please check the spec for HCiX05.

Warranty / Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose**. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications are subject to change without notice.

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