

H0U Series PLC with HMI

Integrated PLC with text HMI

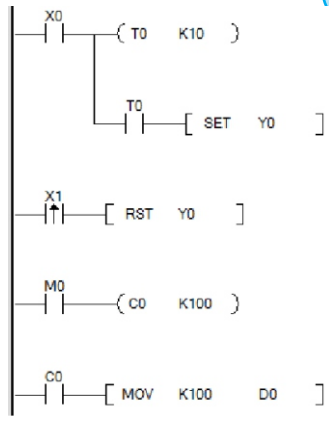
NEW

In-built USB for PLC program download/upload, text HMI program download



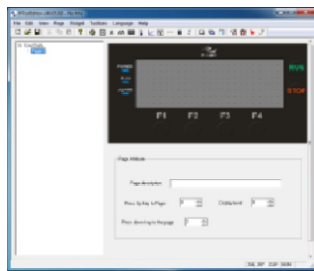
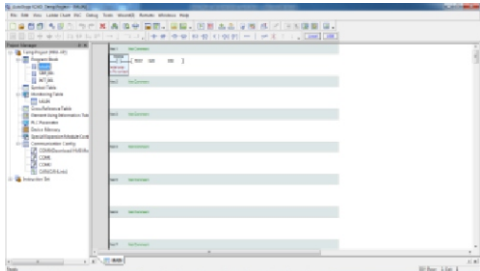
Operation in high ambient temperature
 $55^{\circ}\text{C}_{\text{avg}}$

- ### Features & Functions
- PLC and Text HMI combined
 - Basic instruction: 100ns/instruction
 - Program capacity
 - PLC: 8K Steps
 - Text HMI: 56KB
 - Device memory
 - Auxiliary Relays 1792 points
 - Timers 256 points
 - Counters 256 points
 - Data Registers 8256 points
 - High-speed inputs: up to 60kHz
 - High-speed outputs: up to 100kHz
 - 25 Keys with user defined function
 - Supports RS485(MODBUS-RTU), CANlink(Inovance authorized) communication
 - Supports Digital I/O, Analog I/O, Temperature detection, CAN port
 - PLC programming language:
 - Ladder Diagram(LD)
 - Instruction List(IL)
 - Sequential Function Chart(SFC)



```

LD      X0
OUT    T0 K10
AND    T0
SET    Y0
LDP   X1
RST   Y0
LD    M0
OUT  CO K100
LD    C0
MOV  K100 D0
  
```



PC-Based Software-AutoShop
 easy PLC programming tool

PC-Based Software-HTodEditor
 easy text HMI programming tool



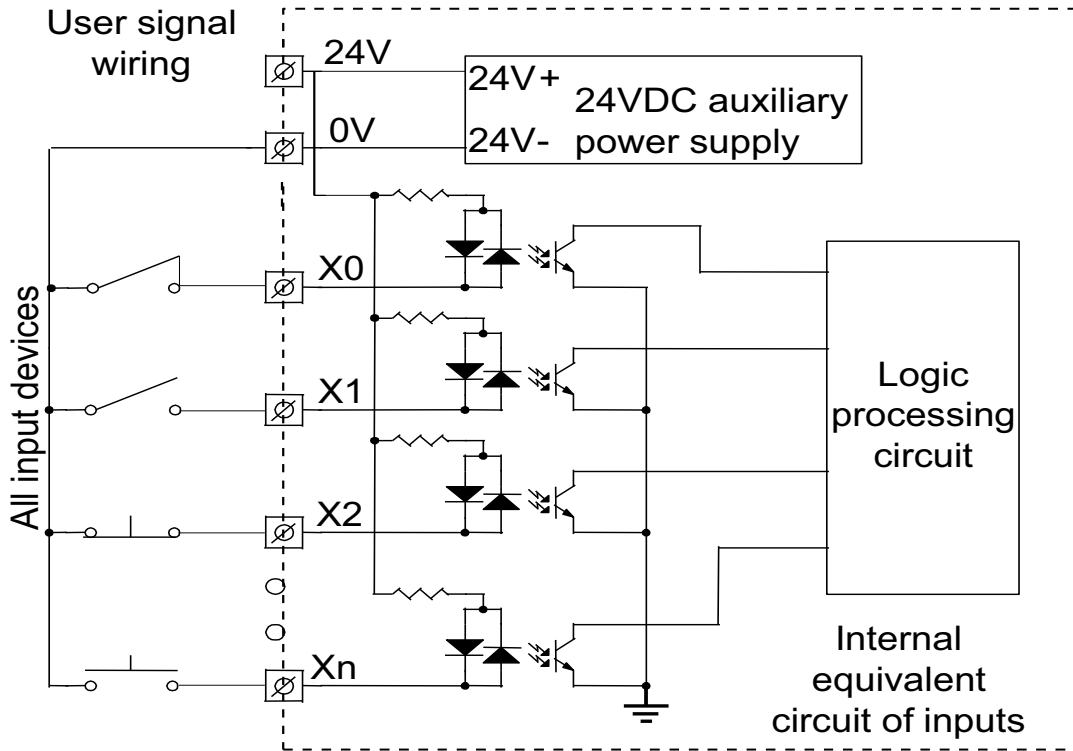
General Specifications

PLC Model		HOU-0808MR-XP	HOU-0808MRT-XP	HOU-1616MR-XP	HOU-1616MRT-XP	HOU-0808MR-XP-6AT	HOU-0808MRT-XP-6AT	HOU-1616MR-XP-6AT	HOU-1616MRT-XP-6AT	HOU-TOD ^[1]				
Dimension	Height	[H] : 146 mm												
	Width	[W] : 200 mm												
	Depth	[D] : 42 mm												
Power Supply		24VDC± 20%												
In-Built DI	Total inputs	8	8	16	16	8	8	16	16	N/A				
	High-speed inputs	2x60kHz 4x10kHz												
In-built DO	Total outputs	8	8	16	16	8	8	16	16					
	High-speed outputs	N/A	2x100kHz	N/A	2x100kHz	N/A	2x100kHz	N/A	2x100kHz					
	Output Type	Relay	4xRelay 4xTransistor (NPN)	Relay	4xRelay 4xTransistor (NPN)	Relay	4xRelay 4xTransistor (NPN)	Relay	4xRelay 4xTransistor (NPN)					
In-built AI	Total inputs	N/A				2								
	Range					Voltage range: -10V~10V Current range: 4~20mA; 0~20mA								
In-built AO	Total outputs					2								
	Range					Voltage range: -10V~10V Current range: 4~20mA; 0~20mA								
Temperature Detection	Total inputs					2								
	Type					PT100/TC								
In-built Port	Serial Port					COM1(RS485), COM2(RS485), MODBUS-RTU								
	CAN Port					N/A								
	USB(Device)					Type-B, Program download/upload								
Display Specifications	Category					LCD Dot Matrix Display								
	Display Color	Background: Yellow green Words: Navy blue												
	Resolution	192 x 64												
	Display Range	104 x 39 mm												
Auxiliary Keys		25 Keys												
Weight		105g												

Note: [1] In-built AI & AO, temperature detection and CAN are optional for HOU-TOD.

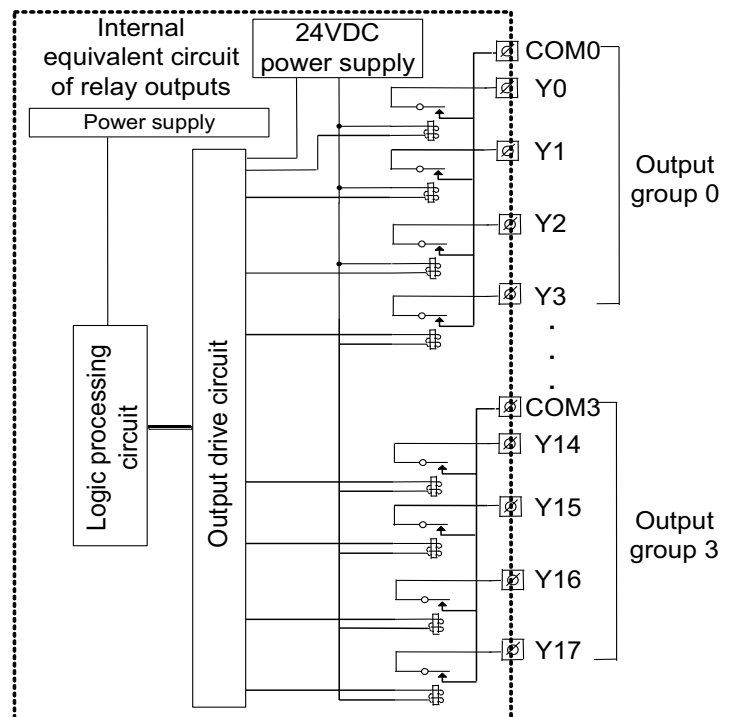
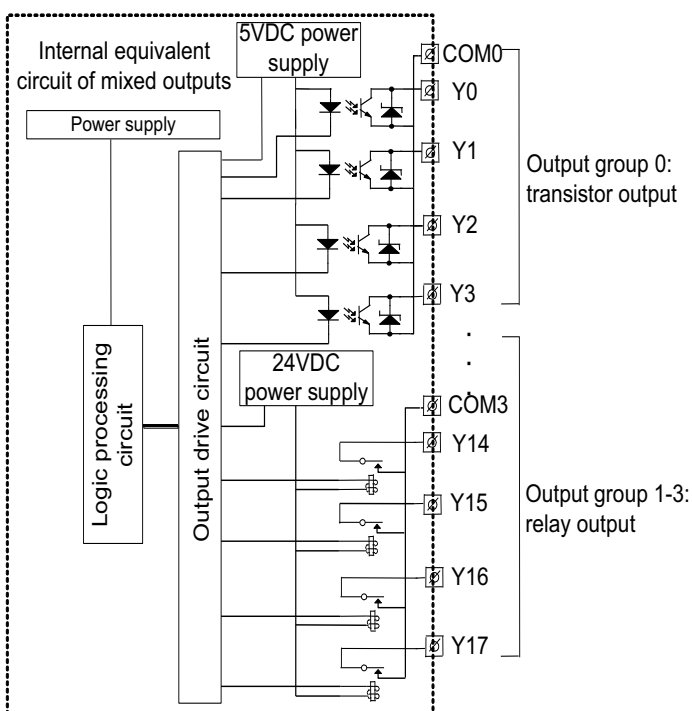
Input Specifications

Items		High-speed Inputs X0 to X5	General Inputs
Signal input mode		Sink input	
Electrical parameters	Input voltage	24VDC	
	Input impedance	3.3kΩ	4.3kΩ
	Input ON	Input current>4.5mA	
	Input OFF	Input current<1.5mA	
Filter function	Hardware filter	The other I/O terminals except X0 to X7 are hardware filter, the filter time is about 10ms.	
High-speed function		The maximum frequency counted at X0 and X1 reaches up to 60kHz, the maximum frequency counted at X2 to X5 reaches up to 10kHz, the total frequency is no higher than 60kHz.	

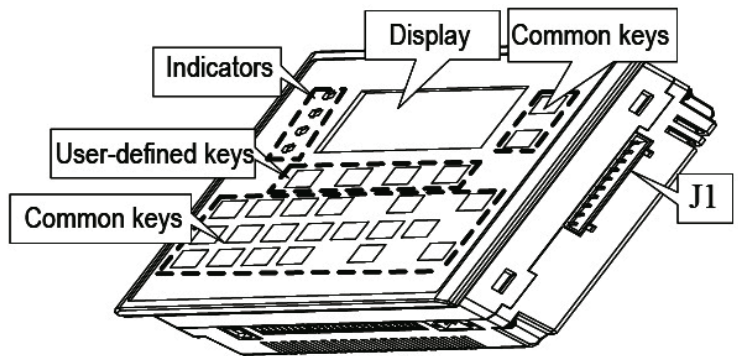
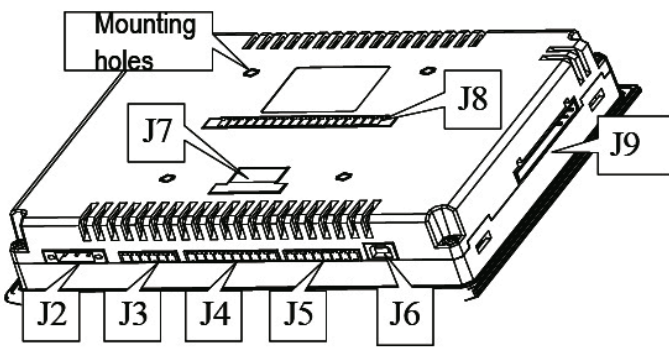


Output Specifications

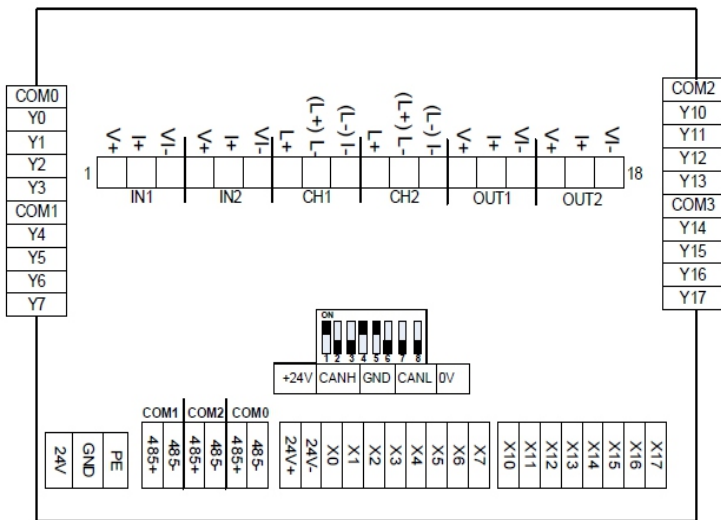
Item	Relay Output	Transistor Output
Circuit voltage	250VAC, 30VDC below	5-24 VDC
Circuit insulation	Relay mechanical insulation	Optically coupling insulation
Action indication	Output contact closing	Contact closing when optically coupling is driven
Leakage current at open circuit	N/A	<0.1mA/30VDC
Minimum load	2mA/5VDC	5mA(5-24VDC)
Maximum output current	Resistive load	0.5A for a point 0.8A for 4 points 1.6A for 8 points
	Inductive load	High-speed outputs: 7.2W/24VDC Others: 12W/24VDC
ON response time	20ms(Max.)	High-speed outputs: 10us Others: 0.5ms
OFF response time	20ms(Max.)	
High-speed output frequency	N/A	100kHz per channel(max.)
Output common terminal	Each group shares a common terminal COM. The groups are insulated.	
Fuse protection	N/A	



Terminal Layout

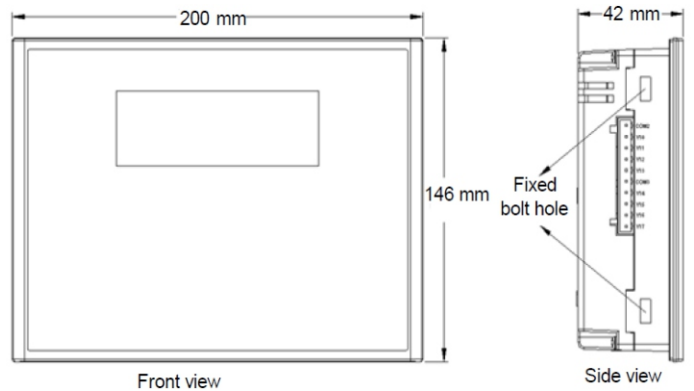


Terminal	Terminal Name	Terminal	Terminal Name
J1	Output terminals(Y0 to Y7)	J2	Power supply interface
J3	Serial communication port(RS485)	J4	Input terminals (X0 to X7)
J5	Input terminals (X10 to X17)	J6	USB client (Type B)
J7	Used for extended CAN function	J8	Interface for in-built analog extension card
J9	Output terminals (Y10 to Y17)		



Note: this includes all the interfaces, but some of them are optional.


Dimensions



Accessories List

Model	Function description	Part no.
IT5-USB-CAB	The common programming cable of the HMI is USB programming cable with one end of Type A male and the other end of Type B male, length of 2m	15041123

For more information, please contact our local offices.

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