

Robot-TP-84M 8.4" Teaching Pendant

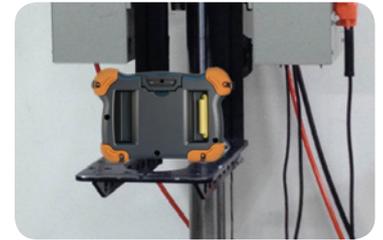
Features

- **8.4" control terminal, easy to use**
 - 350 nits high luminance control terminal with touchscreen to present its graphical user interface.
 - 6-meter long all-in-one cable allows easy installation
 - Ergonomic body design, easy to operate
- **Durable construction**
 - Completely dust and splash proof (IP 64) design
 - 1 meter drop resistance
 - 0°C~50°C extended operating temperature
- **Emergency stop**
- **3-position dead-man switch**
- **Mode select switch with key**



■ Durable construction

Fully IP 64 waterproof protection: prevent damage from oil and gas.



Pass the 1 m drop test.

■ Emergency Buttons

(1) 3-position (OFF-ON-OFF) enabling switch

- Ergonomically-designed OFF-ON-OFF operation.
- Easy recognition of position 1 to 2 transition is made possible by a snap action switch.
- Sufficient difference in operating force is provided for shifting from position 2 to 3.



Pull to reset



Turn to reset

(2) Emergency stop

- Emergency stop switch can be reset either by pulling or turning.

(3) Key switch

- Manual / Auto / Teach mode select with key.



■ Allows hours of fatigue-free working

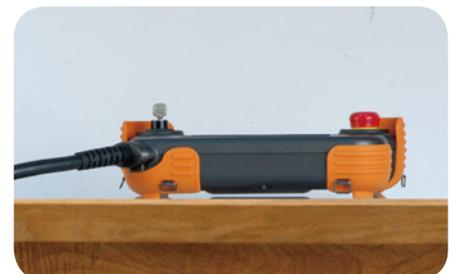
- Adopts strap design to reduce user fatigue.
- Allows the operator to release the hands to do other jobs.
- Greatly enhance the efficiency of the operator.



Handheld front view



Handheld side view



Stably placed on the table

■ Friendly HMI operator interface (Optional)

Intuitive function menu



Convenient to switch between function menus

Manual control mode



Include three motion modes and two coordinate modes for users to save information without hassles

Programming interface



Simple programming interface allowing users to edit robot motion paths

Automatic execution



Run the programmed commands automatically. The cyclic operation mode is also supported.

System alarm



Record alarm logs to understand the robot operation status

External I/O status



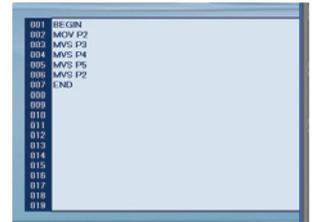
Visualize the operation status of all 64 inputs and 64 outputs

Virtual keyboard



Virtual keyboard eases data input

Online help



Online FAQ and help center

Key switch (manual, automatic, teach)

Emergency stop button (dual circuit)

Rubber edge protectors

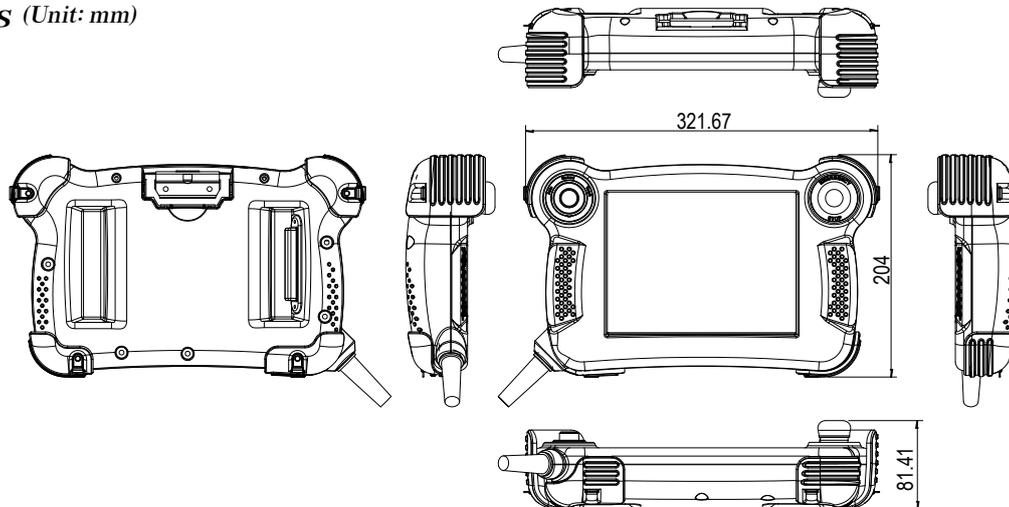
2-contact 3-position (OFF-ON-OFF) enabling switch with rubber boot

Mobile Display

Hook

Non-slip Design

Dimensions (Unit: mm)



Specifications

Item		Robot-TP-84M
Display	LCD Size	8.4"
	Max Resolution	800(W) x 600 (H)
	Brightness (cd/m ²)	350
	Contrast Ratio	600:1
	LCD Color	262k
	Pixel Pitch (mm) (HxV)	0.207 x 0.207
	Viewing Angle (V/H)	130 / 150
	LED backlight MTBF	50000 hrs
Touch Screen		Resistive Touch Screen
I/O Interface	Video Input	VGA
	Touch Interface	RS-232
	Power Source	12VDC Input
OSD Control		Software OSD
Operating Temperature		0°C~50°C
Storage Temperature		- 20°C ~ 65°C
Humidity		< 90% RH (no condensation allowed)
Physical	Housing	ABS+PC
	Dimensions (LxWxH mm)	321.67 x 204 x 81.41
	Weight (G/W, N/W)	3.25kg / 4.2 kg
	IP Rating	6-side IP64 Waterproof
	Color	Black
Cable Length		6 meter (12V DC/VGA/USB)
Vibration		MIL-STD-810F 514.5C-1 Vibration Testing Procedures
Drop Survival		1m (38 inch) 4 corner ,2 sides
Power Consumption		6W

Ordering Information

Part	Description
Robot-TP-84M/K-ML-R20	8.4" 250cd/m ² SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, 37-pin military connector, R20
Robot-TP-84M/K-R20	8.4" 250cd/m ² SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R20



37-pin Military Connector Pinout Locations			
Pin no.	Description	Pin no.	Description
1	Key SW. - Manual	20	RS-232 – SOUT
2	EMG2	21	--
3	EMG1	22	RS-232 – RTS
4	--	23	--
5	RS-232 - GND	24	--
6	--	25	--
7	RS-232 - chassis	26	GND
8	--	27	DDC – DAT
9	-(N)	28	DDC CLOCK
10	--	A	R (Red+)
11	--	B	GND (Red-)
12	+(P)	C	G (Green+)
13	3 SW.2	D	GND (Green-)
14	3 SW.1	E	B (Blue+)
15	Key SW. - Teach	F	GND (Blue-)
16	+12V	G	VSYNC
17	GND	H	HSYNC
18	--	J	Copper Shielding Mesh
19	RS-232 – SIN		

Packing List

Item	Q'ty	Remark
Belt	1	
Key	1	Robot-TP-84M/K Robot-TP-84M/K-ML
Touch Pen	1	
Utility CD	1	