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# **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.





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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.
- Suficient difference in operating force is provided for shifting from position 2 to 3.

### (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



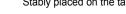




Stably placed on the table







# Friendly HMI operator interface (Optional)

#### Intuitive function menu



Convinient to switch between sfunction menus

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	_	_	_	_		•	ARTEST		_
	-	1	12	n ee vo	- 40			NE	R.C
JI	0.000	-	177	MINR-	-			EWN	MIN
32	0.000	-	Long Long		12	CL.			
73	0.000	**		0.000	37.723	1070000	0.000	34.637	0.000
34	0.000	-	2	28.660	72.156	58.064	-0.004	48,792	20.662
35	0.000	**	1 miles						
36	0.000	-	3	-30.650	73.152	58.071	-0.006	48.772	-30.656
			4	-53.129	45.220	109.843	-0.009	24.933	-53.122
	1 COLUMN		5	53.131	45.222	109.838	-0.009	24.945	53.129
×	-30.000	-	1.1	0.000	13.882	136.810	0.000	-60.692	0.000
Y	-0.000	-	7	45.722	38.050	56.149	85.908	-45.874	-84.136
z	1035.000	-		-45.724	38.058	56136	45.911	-45.073	84 147
Rx	0.000	44	÷	-45.723	79.405	29.234		-75.328	
By			1.1						
R	180.000	44	10	45.721	79.483	79.229	47.737	-75.323	-15.582

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

Manual control mode



Simple programming interface allowing users to edit robot motion paths

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	10.00			-		
e.	0.000	-	1	MOV J1		
2	0.000	-	2	DLY 200		
i.	0.000	-	3	MVS P2		
ŀ	0.000	-	4	DLY 500		
ŀ	0.000	-	5	MVS P3		
2	0.000	-	6	DLY 500		
			7	MVS P4		
				DLY 500 MVS P5		
	-38.000		1.1	MYS F5 DLY 500		
Şŀ-			11	MVS P2		
	-6:000		12	DLY 500		
2	1835-000		ii.	IL VOM		
к.	0.000	44	111	DLY 200		
v.	-0.000	-	15	MVS P2		

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

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		,	111	140.5	240	6			R.C. J	
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н	0.000	44								
15	0.000	44	2	38.660	73.156	58.064	-0.004	48,793	38.662	
16	0.000	44	3	-38.659	73.152	58.071	-0.006	48.773	-30.656	
			4	-53.129	45.220	109.843	-0.009	24.933	-63.122	
	THE R. P. LEWIS		5	\$3.131	45.222	109.838	-0.009	24.945	53.139	
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۲	-0.000	-	17	45.722	38.050	66.149	85.908	-45.874	-84 136	
Z	1035.000	-		-45.724	38.058	56.136	-05.911	-45.073	84.147	
RK	0.000		1.1							
١y.	-0.000	-	9	-45.723	79.405	79.234		-75.328	15.582	
Rel	188.000	44	10	45.721	79.483	79.229	47.737	-75.323	-15.582	

System alarm

Record alarm logs to understand the robot operation status



Visualize the operation status of all 64 inputs and 64 outputs

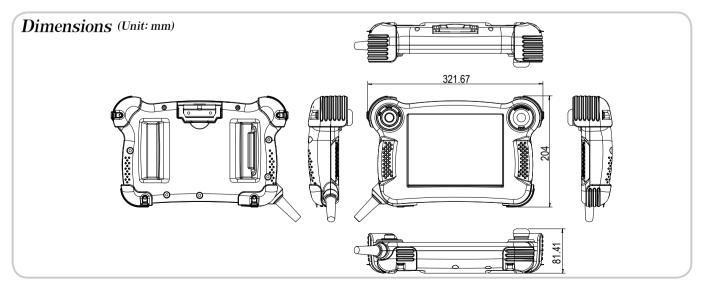
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Virtual keyboard eases data input



Online FAQ and help center





### Specifications

Item		Robot-TP-84M					
	LCD Size	8.4"					
	Max Resolution	800(W) x 600 (H)					
	Brightness (cd/m <sup>2</sup> )	350					
Display	Contrast Ratio	600:1					
Display	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					
	Video Input	VGA					
I/O Interface	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)					
Housing		ABS+PC					
	Dimensions (LxWxH mm)	321.67 x 204 x 81.41					
Physical	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 <sup>2</sup> 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 <sup>2</sup> SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R20



37	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					
3		27	DDC – DAT					
9	-(N)	28	DDC CLOCK					
10		Α	R (Red+)					
11		в	GND (Red-)					
12	+(P)	с	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	н	HSYNC					
18		J	Copper Shielding Mesh					
19	RS-232 – SIN							