

R46TB

Robot Teach Panel

Mobile, Practical, Powerful

Hand-held Control Solutions for Robots





Ergonomic operation with high-resolution 6.5" touchscreen display



Comprehensive programming capabilities and versatile operation features



Programs and positions can be saved on an USB memory storage device



Robust twin-walled housing for reliable protection in heavy-duty environments

Putting more control at your finger tips



With the R46TB you can set up your Mitsubishi robots quickly and easily

Mobility: The R46TB in use with a robot

The R46TB is a powerful control terminal for all operation and display tasks with a wide range of functions that allows you to make full use of the robot system's capabilities.

Multifunctional

The R46TB teach panel is a multifunctional control and programming terminal for all Mitsubishi A and S series robots. Its intuitive user interface makes it easy to control robot movements and perform extensive diagnostics and monitoring functions functions for users of all levels. All safety-critical functions such as robot movements are assigned to keys. Programming and monitoring functions are accessed and adjusted quickly and easily via the bright 6.5" touchscreen display.

New standards for mobile operation

In addition to controlling robot movements the terminal has many other functions: For example, you can write programs with a virtual on-screen keyboard and monitor all system status parameters, inputs and outputs, including those accessed via the network.

The R46TB's flexible monitoring function enables the display of all important system parameters. Access to production data like the number of work cycles, the average cycle time and many other parameters make it easy to get a quick overview of the production situation.

Extensive analysis functions for checking robot workload also make it easy to optimise your robot applications and minimise cycle times.



The R46TB menu display and the virtual on-screen keyboard

Screen input templates make it easy to enter the parameters for grippers and workpieces for quick system optimisation. Entering the reference points data when you install the system just takes a few minutes, then the robot is ready for programming.

Integrated USB port

The integrated USB port makes it possible to back up individual programs or all of the controller data to a standard USB memory storage device. This also makes it easy to transfer all your programs and data to other systems after setting them up on one robot.



Easy access to the USB port

Safety first

All the safety-critical circuits in the R46TB are doubly redundant and meet the full requirements for single-fault tolerance. The three-stage confirmation key system provides maximum safety for the operator, combined with excellent ergonomics.

Operation is easy and reliable. Users only need to overcome the initial key resistance when the key is first pressed, holding the key in the confirmation setting requires no additional force. The third stage of the confirmation key, which is also known as the "panic setting", guarantees cancellation of confirmation in the event of an emergency.



The R46TB is easy to be hold and can be used without tiring, even for longer periods.

Easy to hold and use

The R46TB teach panel is designed to be equally comfortable for both right and left handed users. It can be held comfortably in a number of different ways for easy use without tiring, even over longer periods of time. Users can hold the unit and operate the confirmation key with one hand. The ergonomically designed handle on the underside doubles as a practical base when the unit is placed on a console. An optional wall mount is also available for installing the Teach Panel securely in an easily-accessible position.

Tough design

The terminal has an extremely robust design: For example, it is installed in a tough twin-walled housing and the display has flexible mountings, enabling the R46TB to withstand a fall from 1.5 meters without loss of functionality.

The teach panel can also withstand vibration and single or continuous mechanical shocks without problems. It is also resistant to oil, grease, alcohol and condensation containing hydrochloric acid*.

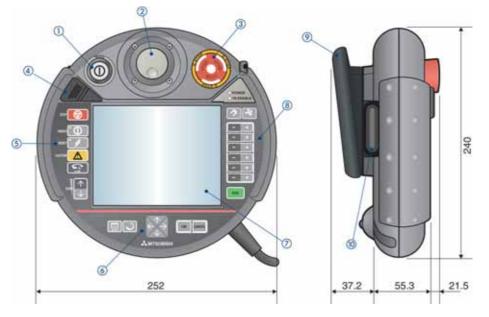
*For exact specifications please see the R46TB Handware and User manuals.



The confirmation key for one-handed operation

Specifications ///

Teach Panel		R46TB		
Compatibility		All Mitsubishi A and S series robots		
Functions		Operation, programming and monitoring of all robot functions		
Programming and Monitoring		Read out information, also during operation; program editing with virtual keyboard; display up to 14 lines of program code; I/O monitoring for up to 256 inputs and 256 outputs; service display with information on maintenance intervals; error display with details of the last 128 alarms		
Software		Integrated operating system software with menu-based user interface		
Display	Type/Dimensions	6.5" TFT display (640 x 480 pixels)		
	Technology	Touchscreen with backlight		
Interfaces		USB, RS-422 for connection to the robot controller		
Connection		Direct connection to the robot controller, cable length 7m		
Protection Rating		IP54		
Ambient Conditions	Ambient Temperature	Operation: 0 – 50°C (non-condensing); Storage: -25 – 70°C (non-condensing)		
	Relative Humidity	Operation: 90% max. (non-condensing); Storage: 90% max. (non-condensing)		
Weight [kg]		1.25		



Description			
1	TEACH key (On/Off)		
2	Jog shuttle wheel for menu access		
3	Emergency OFF switch		
4	USB connector (under cover)		
(5)	Operating keys		
6	Menu/navigation keys		
7	Colour display		
8	Keys for robot movements		
9	Hand grip		
10	Confirmation key		

EUROPEAN BRANCHES

	UNUFERN BRANCHES	
. F	MITSUBISHI ELECTRIC EUROPE B.V. 25, Boulevard des Bouvets F- 92741 Nanterre Cedex Phone +33 (0)1 / 55 68 55 68	FRANCE
. GEI	MITSUBISHI ELECTRIC EUROPE B.V. Gothaer Straße 8 D-40880 Ratingen Phone +49 (0)21 02 / 486-0	GERMANY
	MITSUBISHI ELECTRIC EUROPE B.V. Westgate Business Park, Ballymount I RL-Dublin 24 Phone +353 (0) 1 / 419 88 00	IRELAND
l.	MITSUBISHI ELECTRIC EUROPE B.V. /iale Colleoni 7 - 20041 Agrate Brianza (MI) Phone +39 039 / 60 53 1	ITALY
	MITSUBISHI ELECTRIC EUROPE B.V. Carretera de Rubi, 76-80 E-08190 Sant Cugat del Vallés Phone +34 93 / 565 31 31	SPAIN
l.	MITSUBISHI ELECTRIC EUROPE B.V. Travellers Lane UK-Hatfield Herts. AL10 8 XB Phone +44 (0) 1707 / 27 61 00	UK

FUDADEAN DEDDECENTATIVES

EUROPEAN REPRESENTATIVES					
GEVA Austria	BEIJER ELECTRONICS OY				
Wiener Straße 89	Jaakonkatu 2				
AT-2500 Baden	FIN-01620 Vantaa				
Phone: +43 (0)2252 / 85 55 20	Phone: +358 (0)207 / 463				
KONING & HARTMAN B.V. Belgium	KOUVALIAS ROBOT SYSTEM				
Woluwelaan 31	25, El. Venizelou Ave				
BE-1800 Vilvoorde	GR-17671 Kallithea				
Phone: +32 (0)2 / 257 02 40	Phone: +30 22950 / 4290.				
AUTOCONT CS S.R.O. Czech Republic	AXICONT AUTOMATIKA KFI				
Jelinkova 59/3	Reitter F. U. 132				
CZ-721 00 Ostrava Svinov	HU-1131 Budapest				
Phone: +420 (0)59 / 5691 150	Phone: +36 (0)1 / 412-08				
B:TECH A.S.	KONING & HARTMAN B.V. N Haarlerbergweg 21-23 NL-1101 CH Amsterdan Phone: +31 (0)20 / 587 76				
BEIJER ELECTRONICS A/S	BEJER ELECTRONICS AS				
LAUTRUPHOJ 1-3	Postboks 487				
DK-2750 Ballerup	NO-3002 Drammen				
Phone: +45 (0)70 / 26 46 46	Phone: +47 (0)32 / 24 30 00				

| Finland | MPL TECHNOLOGY SP.Z 0.0 | Poland Ul. Krakowska 50 | Phone:+48 (0)12 / 630 47 00 | CONSYS | CONSTRUCTION | CO

| Poland | CSMTRADE SLOVENSKO, S.R.O. | Slovakia Vajanskeho 58 | SK - 92101 Piestany | Phone: +421 (0)33 / 7742 760 | Russa | Steppe 11 | SI-1000 Ljubljana | Phone: +386 (0)1 / 513 8100 | Russa | Steppe 10 | SI-1000 Ljubljana | Phone: +386 (0)1 / 513 8100 | SELIRE ELECTRONICS AUTOM/Sideblein | SE-20124 Malmö | Phone: +46 (0)40 / 35 86 00 | Phone: +46 (0)40 / 35 86 | Phone: +46 (0)4

ECONOTEC AG Switzerland Hinterdorfstr. 12 CH-8309 Nürensdorf Phone:+41 (0)44 / 838 48 11 GTS Turkey Darulaceze Cad. No. 43 KAT. 2 TR-3-4384 Okmeydani-Istanbul Phone:+99 (0)(2)12 / 320 1640 Jatonation Service 24 Shenkar St., Kiryat Arie IL-49001 Petah-Tiqva Phone:+972 (0)3 / 922 18 24

CBI LTD. **South Afric**Private Bag 2016 **ZA-1600 Isando**Phone: + 27 (0)11 / 928 2000

