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Portable Industrial Controller R&S PSP7

Mobile measurements and their control made to perfection

Maximum mobility

The R&S PSP7 makes measurements and their control mobile. Because of the instrument's compact size, its automatic test and measurement functionality can be used anywhere.

Switch on and go

The "switch on and go" principle has been applied to the R&S PSP7 just as it was to all previous Rohde & Schwarz process controllers. Operating system and comprehensive software can be factoryinstalled.

Optimal EMC

The R&S PSP7 keeps going even under extreme environmental conditions. Due to excellent shielding, the R&S PSP7 features extremely low emission and high immunity to interference, as well as shock and vibration resistance.



The multi-talented allrounder

Stationary or mobile use

The front-panel keypad and the integrated TFT display allow the controller to be used in a rack or in the field.

Mobile use

The front-panel keypad comprises a numeric block, preprogrammed function keys and a cursor block with spinwheel. All keys are fully integrated into Windows, so it is possible to control applications without an external keyboard. This is a great advantage for applications in production environments.



Compact size and independence from local AC supplies make the R&S PSP7 suitable for universal applications. It can be powered from diverse onboard networks – in vehicles, on ships or in aircraft.



Stationary use

Whenever necessary, an external keyboard and a monitor can be connected to the R&S PSP7 and run parallel to the front-panel keypad and the built-in display.

Always on the sunny side

Maximum mobility can only be achieved with full independence from the type of energy source.

Solar powering

The R&S PSP7 can be powered from a solar panel via the DC input connector.

DC powering

The R&S PSP7 accepts DC voltages from cars, ships or aircraft.

The software options in detail

Powerful hardware and software components

The R&S PSP7 comes with an IEC/IEEE bus fitted as standard. With the software option R&S PSP-K12 (Windows XP Embedded), the operating system as well as all the necessary drivers are already installed, so there are no time-consuming hardware and software installations. The option R&S PSP-K13 (NI Measurement Studio Full Development System with LabWindows/CVI) provides a comprehensive tool for software development.

Windows XP Embedded

Windwos XP Embedded is based on the binary code of Windows XP Professional. This ensures unrestricted functionality and all the advantages of a modern operating system from Microsoft.

The embedded version of Windows XP can be used with all software applications that support the system application running on the R&S PSP7, including the use of office applications for evaluating the measurement results. ¹⁾

LabWindows/CVI ²⁾

LabWindows/CVI from National Instruments is an interactive base for programming virtual instruments on the R&S PSP7 and is practically industry standard.

The visual tools for creating graphical user interfaces are an integral part of the C development environment which can be used to generate EXE programs and DLL files.



 $^{2)}$ CVI = C for virtual instrumentation.



Interactive development and testing of measurement software is a prominent feature of LabWindows/CVI.

The software comes with a selection of device drivers and comprehensive analysis functions. With LabWindows/CVI, C source code can be generated in next to no time in order to communicate with measuring instruments via IEC/IEEE bus or serial interface.

Further information

For further information please contact your nearest Rohde & Schwarz representative or headquarters in Munich.

Telephone:	+49 1805124242
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Customer benefits

Interfaces – the lifeline of a controller

Numerous interfaces such as 2 x serial, 1 x parallel, IEC/IEEE bus, PCMCIA, 2 x Ethernet and USB are the link to communication between the controller and the devices to be controlled.

Modular expansion

Despite its compact size, the R&S PSP7 incorporates everything you need for many measurement tasks. Should you require additional functions to solve special measurement problems, the R&S PSP7 can accommodate up to four additional long-format measurement cards.

Best of EMC characteristics

It is not by chance that the R&S PSP7 features excellent EMC characteristics. The instrument was developed and constructed strictly in compliance with EMC specifications, backed by the comprehensive know-how of Rohde & Schwarz.

Extensive filtering for the electronic components in conjunction with effective shielding and a novel design of the casing led to an industrial controller that can safely be employed even in the vicinity of highly sensitive receivers without impairing the measurement results.

Our promise – reliability and stability

Maximum reliability is a crucial factor in production as well as in mobile use. We at Rohde & Schwarz are very much aware of this factor, and all our products fully comply with the ISO 9001 standard.

All components used in the R&S PSP7 were developed and selected with longterm availability in mind so that servicing or expansion of the R&S PSP7 will be no problem even in many years' time – an advantage that is appreciated especially by production engineers and system planners. Furthermore, the R&S PSP7 has up to three temperature sensors making sure that the instrument never overheats.



Specifications

CPU

Memory

Display Screen

Interfaces

– internal – Available interfaces ISA ISA ISA ISA/PCI

– external –

IEC/IEEE Serial Printer PCMCIA Keyboard

USB Ethernet

Software Operating system

Measurement software

Graphics With integrated LCD

For external monitors

General data

Rated temperature range Operating temperature range Storage temperature range Temperature loading

Relative humidity

Mechanical resistance Vibration, sinusoidal

Vibration, random

Shock

Safety

EMC

Quality standard

Intel Pentium III, 700 MHz, mobile, or more powerful 256 Mbyte (standard), with R&S PSP-B2 expandable to 512 Mbyte, hard disk 20 Gbyte minimum, 3 1/2" disk drive (1.44 Mbyte)

LCD colour 8.4", anti-glare

3 x 16 bit, dimensions (L x H): 330 mm x 140 mm 330 mm x 140 mm 312 mm x 140 mm 1 x 16 bit or 32 bit, dimensions (L x H): 312 mm x 140 mm

IEEE488.2, compatible with NI TNT 2 x RS-232-C Centronics LPT1 (ECP, EPP) release 2.0, type III, connector 5-pin DIN, 5-pin PS/2 for mouse and keyboard 2 x USB 1.1 2 x 10/100 Mbit/s RJ45

Windows XP Embedded (E) (optional) LabWindows/CVI (optional)

VGA standard: 800 x 600 pixels up to 1600 x 1200 pixels

+5°C to +45°C 0°C to +50°C -25°C to +60°C meets DIN EN 60068-2-1 and 60068-2-2 as well as MILT-28800D class 5 95% at +40°C meets DIN EN 60068-2-3

5 Hz to 150 Hz, max. 2 g at 55 Hz, 55 Hz to 150 Hz, 0.5 g constant meets DIN EN 60068-2-6 and 61010-1 MIL-T-28800D class 5 10 Hz to 300 Hz, 1.2 g rms meets DIN EN 60068-64 40 g shock spectrum meets DIN EN 60068-2-27, MIL-STD-810D, method 516.3, and MIL-T-28800 class 3 and 5 complies with the requirements of the Low-Voltage Directive of EU meets DIN EN 61010-1: 1993 and DIN EN 60950: 1992 complies with the requirements of the EMC Directive of EU meets EN 61326-1: 1997, emission acc. to class B, immunity for operation in industrial environments developed and manufactured to ISO 9001

Power supply AC supply

DC supply Dimensions (W x H x D) Weight

Ordering information

Order designation		
Portable Industrial Controller	R&S PSP7	1099.6002.73
Accessories supplied	pocket guide, power cable, connector for external DC supply, driver CD (soft- ware options come with recovery/instal- lation CD)	
Options (only in conjunction with R&S PSP7 ex factory) Windows XP Embedded (E)	R&S PSP-K12	1091.4700.32
Windows XP Embedded (E) + LabWindows/CVI from NI	R&S PSP-K13	1091.4800.32
Interfaces 2nd IEC/IEEE Bus (AT GPIB, 488.2)	R&S PS-B4	1006.6207.04
TTL I/O Interface 40 I/O ports, 8 relays, 8 optocouplers, 3 timers	R&S PS-B11	1006.7303.02
without relays, optocouplers and timers PC Card (PCMCIA) for SCSI Adapter	R&S PS-B11 R&S PSP-B5	1006.7303.04 1134.8101.02
Memory PCMCIA Exchangeable Hard Disk 512 Mbyte (minimum) 256 Mbyte Memory Extension	R&S PSM-B9 R&S PSP-B2	1064.5700.02 1091.3640.04
Recommended extras Compact Keyboard with integrated trackball (370 mm x 138 mm x 19 mm)		
German, without swivel frame English, without swivel frame German, with swivel frame English, with swivel frame	R&S PSP-Z1 R&S PSP-Z2 R&S PSP-Z3 R&S PSP-Z4	1091.4000.02 1091.4100.02 1091.4200.02 1091.4300.02
TFT Monitor 17" 19" Adapter for R&S PSP7 Mouse, Microsoft-compatible, serial External USB CD Burner	R&S PMC3 R&S ZZA-S01 R&S PS-B1 R&S PSP-B6	1082.6004.10 1105.6733.00 1006.6359.02 1134.8201.12
0.5 m 1 m	R&S PCK R&S PCK	0292.2013.05 0292.2013.10
2 m 4 m	R&S PCK R&S PCK	0292.2013.20 0292.2013.40
	Portable Industrial Controller Accessories supplied Options (only in conjunction with R&S PSP7 ex factory) Windows XP Embedded (E) Windows XP Embedded (E) + LabWindows/CVI from NI Interfaces 2nd IEC/IEEE Bus (AT GPIB, 488.2) TTL I/O Interface 40 I/O ports, 8 relays, 8 optocouplers, 3 timers TTL I/O Interface without relays, optocouplers and timers PC Card (PCMCIA) for SCSI Adapter Memory PCMCIA Exchangeable Hard Disk 512 Mbyte (minimum) 256 Mbyte Memory Extension Recommended extras Compact Keyboard with integrated trackball (370 mm x 138 mm x 19 mm) German, with swivel frame English, with us wivel frame English, with swivel frame English, with swivel frame (other keyboards on request) TFT Monitor 17" 19" Adapter for R&S PSP7 Mouse, Microsoft-compatible, serial External USB CD Burner IEC/IEEE Bus Cable 0.5 m 1 m 2 m	Portable Industrial ControllerR&S PSP7Accessories suppliedpocket guide, power cable for external DC supply, dr ware options come with r lation CD) Options (only in conjunction with R&S PSP7 ex factory)R&S PSP-K12Windows XP Embedded (E) + LabWindows/CVI from NIR&S PSP-K12Interfaces 2nd IEC/IEEE Bus (AT GPIB, 488.2)R&S PSP-K13ITL I/O Interface 40 I/O ports, 8 relays, 8 optocouplers, 3 timersR&S PS-B4TTL I/O Interface without relays, optocouplers and timersR&S PS-B11PC Card (PCMCIA) for SCSI AdapterR&S PS-B5 Memory PCMCIA Exchangeable Hard Disk 512 Mbyte (minimum) 256 Mbyte Memory ExtensionR&S PSP-B2 Recommended extras Compact Keyboard with integrated trackball (370 mm x 138 mm x 19 mm) German, with out swivel frame English, with swiel frame English, with swiel frame English, with swiel frame English, with swiel frame (other keyboards on request)R&S PSP-22 R&S PSP-23 RS SPS-23 English, with swiel frame English, with swiel frame Engl

100 V to 120 V $\pm 10\%$, 50 Hz to 400 Hz $\pm 5\%$

220 V to 240 V $\pm 10\%$,

412 mm x 198 mm x 380 mm

50 Hz to 60 Hz ±5%

10 V to 32 V

8 kg







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