

R&S® CMW-CU Control Unit Specifications



Definitions

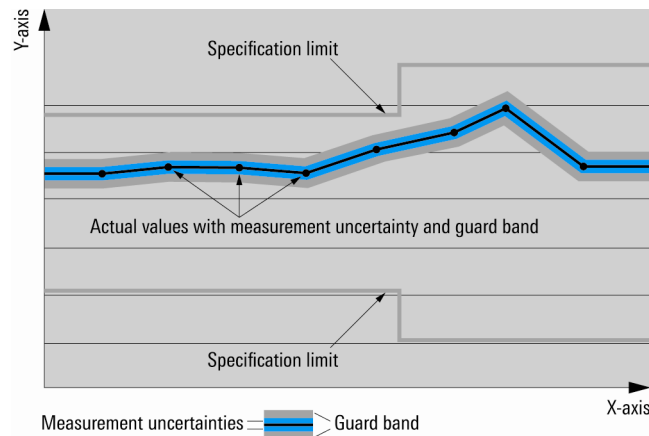
General

Product data applies under the following conditions:

- Three hours storage at ambient temperature followed by 30 minutes warm-up operation
- Specified environmental conditions met
- Recommended calibration interval adhered to
- All internal automatic adjustments performed, if applicable

Specifications with limits

Represent warranted product performance by means of a range of values for the specified parameter. These specifications are marked with limiting symbols such as $<$, $\leq$, $>$, $\geq$, $\pm$, or descriptions such as maximum, limit of, minimum. Compliance is ensured by testing or is derived from the design. Test limits are narrowed by guard bands to take into account measurement uncertainties, drift and aging, if applicable.



Specifications without limits

Represent warranted product performance for the specified parameter. These specifications are not specially marked and represent values with no or negligible deviations from the given value (e.g. dimensions or resolution of a setting parameter). Compliance is ensured by design.

Typical data (typ.)

Characterizes product performance by means of representative information for the given parameter. When marked with $<$, $>$ or as a range, it represents the performance met by approximately 80 % of the instruments at production time. Otherwise, it represents the mean value.

Nominal values (nom.)

Characterize product performance by means of a representative value for the given parameter (e.g. nominal impedance). In contrast to typical data, a statistical evaluation does not take place and the parameter is not tested during production.

Measured values (meas.)

Characterize expected product performance by means of measurement results gained from individual samples.

Uncertainties

Represent limits of measurement uncertainty for a given measurand. Uncertainty is defined with a coverage factor of 2 and has been calculated in line with the rules of the Guide to the Expression of Uncertainty in Measurement (GUM), taking into account environmental conditions, aging, wear and tear.

Typical data as well as nominal and measured values are not warranted by Rohde & Schwarz.

Specifications

Hardware

CPU		Intel® Core 2 Duo processor T7500 2.2 GHz or faster
Memory		L2 cache, 4 Mbyte; DDR2 RAM, 4 Gbyte
Hard disk		SCL solid state disk, 32 Gbyte; MCL solid state disk, 512 Gbyte
Drives		
DVD combo drive		
CD		CD-R, CD-RW read and write
DVD		DVD±R, DVD±R double layer, DVD±RW read and write

Interfaces

Internal interfaces		
Free slots		
PCI		4 × 32 bit, max. 330 mm × 106 mm
PCI Express		1 × PCIe x1, 1 × PCIe x4 max. 312 mm × 111 mm

External interfaces		
Display		max. 1920 × 1200 pixel
DVI		DVI female connector (dual single link)
VGA		15-contact high-density D-Sub female connector
USB	2 × front panel, 3 × rear panel	5 × USB 2.0
Ethernet	1 × front panel, 1 × rear panel	2 × 10/100/1000 Mbit/s, RJ-45
IEC/IEEE		IEC 60625-2 (IEEE 488.2), compatible with NI TNT, 24-contact Amphenol connector

Software

BIOS		AWARD
Operating system		Windows Embedded Standard 7, 64 bit (English)

General data

Environmental conditions		
Temperature		
Operating temperature range		+5 °C to +40 °C
Storage temperature range		–20 °C to +60 °C
Damp heat		in line with EN 60068-2-30, +25 °C/+40 °C, 95 % rel. humidity, cyclic
Mechanical resistance		
Vibration	non-operating mode	
	sinusoidal	in line with EN 60068-2-6, 5 Hz to 55 Hz, 0.15 mm amplitude constant, 55 Hz to 150 Hz, 0.5 g constant
	random	in line with EN 60068-2-64, 10 Hz to 300 Hz, acceleration 1.2 g RMS
Shock		in line with MIL-STD-810E, method 516.4, procedure I, 40 g shock spectrum
Power supply		
Rated voltage		100 V to 240 V (AC) ± 10 %
Rated frequency		50 Hz to 60 Hz ± 5 %
Rated current		2.2 A to 0.15 A
Conformity		
Electromagnetic compatibility	EU EMC Directive 2004/108/EC	in line with EN 61326-1 (industrial environment), EN 61326-2-1, EN 55011 (class B), EN 61000-3-2, EN 61000-3-3
Electrical safety	EU Low Voltage Directive 2006/95/EC	in line with EN 61010-1
Dimensions and weight		
Dimensions	W × H × D	465 mm × 150 mm × 517 mm (18.3 in × 4.28 in × 19.48 in) (19", 3 HU)
Weight	base unit	approx. 9.5 kg (20.94 lb)

Ordering information

Designation	Type	Order No.
Base unit		
Control Unit	R&S® CMW-CU	1161.5000K50
Accessories supplied		
Operating manual, software driver (CD), power cable		
Accessories		
Keyboard, US character set, USB	R&S® PSL-Z2	1157.6870.xx
Mouse, optical, USB	R&S® PSL-Z10	1157.7060.xx
17" TFT Monitor	R&S® PMC3	1082.6004.xx
19" Rack Adapter	R&S® ZZA-311	1096.3277.00
IEC/IEEE Bus Cable		
0.5 m length	R&S® PCK	0292.2013.05
1 m length	R&S® PCK	0292.2013.10
2 m length	R&S® PCK	0292.2013.20
4 m length	R&S® PCK	0292.2013.40

For product brochure, see PD 5214.5710.12 and www.rohde-schwarz.com.

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Environmental commitment

- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system

Certified Quality System
ISO 9001

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