# R&S®NRP Series Power Sensors

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This document is valid for the following Rohde & Schwarz instruments:

- R&S®NRPxxS(N) Three-Path Diode Power Sensors
- R&S®NRPxxA(N) Average Power Sensors
- R&S®NRPxxT(N) Thermal Power Sensors
- R&S®NRPxxTWG Thermal Waveguide Power Sensors
- R&S®NRPM3 Three-Channel Sensor Modules
- R&S®NRQ6 Frequency Selective Power Sensors



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R&S®NRP Series Introduction

# 1 Introduction

This product uses a number of open source software packages which are listed below.

The open source software is provided free of charge. You are entitled to use the open source software in accordance with the respective license conditions as provided in the following chapters.

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R&S®NRP Series Software packages

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Package	Version	License
linux (Linux Kernel)	3.14.34	GPL-2.0
u-boot (Das U-Boot)	2013.01.01	GPL-2.0
BusyBox	1.22.1	GPL-2.0
eglibc (GNU C library)	2.12	GPL-2.0 & LGPL-2.1 & BSD-style & MIT-style
Avahi	0.6.30	LGPL-2.1+
Boost	1.55.0	BSL-1.0
bzip2	1.0.6	bzip2
dbus (D-Bus)	1.6.10	AFL-2.1   GPL-2.0+
dialog	1.1-20100428	LGPL-2.1
Dropbear	0.53.1	MIT & BSD-2-Clause & BSD-3-Clause & PD
e2fsprogs	1.41.14	GPL-2.0 & LGPL-2.0 & BSD-style & MIT-style
Eigen	3.2.2	MPL-2.0 & GPL-3.0 & LGPL-2.1+ & BSD-style
expat	2.1.0	MIT
fcgi (FastCGI)	2.4.1-SNAP- 0910052249	OML
Flot	0.8.3+git	MIT
glog	0.3.5	BSD-3-Clause
htop	1.0.2	GPL-2.0
ifplugd	0.28	GPL-2.0
Info-ZIP Zip	3.0	Info-ZIP
jQuery	2.1.1	MIT
jQuery-File-Upload	9.10.0	MIT
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libdaemon	0.14	LGPL-2.1+
libiconv	1.13.1	GPL-3.0 & LGPL-2.0
linux-ftpd	0.17	BSD-4-Clause
lldpd	0.9.7	ISC & BSD-3-Clause
Isof	4.84	BSD-style
mtd-utils	1.4.4+git	GPL-2.0+
multipart-parser-c	0.0+git	MIT
ncurses	5.9	X11
Ne10	1.2.1+git	BSD-3-Clause
OpenSSL	0.9.8x	OpenSSL
portmap	4	BSD-4-Clause & BSD-style
protobuf-cpp	3.5.1.1	BSD-3-Clause
pugixml	1.4	MIT
spawn-fcgi	1.6.3	BSD-3-Clause
strace	4.8	BSD-3-Clause
sudo	1.8.0	ISC & BSD-3-Clause & Zlib
uClibc	0.9.33.2	LGPL-2.1
udev	171	GPL-2.0 & LGPL-2.1
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zlib	1.2.5	Zlib

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

**5.** A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

**6.** As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- **b)** Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- **c)** If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- **d)** Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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**4.** You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Julian Seward, jseward@bzip.org bzip2/libbzip2 version 1.0.6 of 6 September 2010

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## 3.24 jquery-file-upload-9.10.0: js/jquery.fileupload.js, 1-10

jQuery File Upload Plugin 5.42.3 https://github.com/blueimp/jQuery-File-Upload

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## 3.36 multipart-parser-c-0.0+git: multipart\_parser.c, 1-4

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## 3.37 ncurses-5.9: ncurses/base/version.c, 1-27

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## 3.40 portmap-4: portmap.c, 2-31

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## 3.41 portmap-4: from\_local.c.9-35

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## 3.45 pugixml-1.4: readme.txt, 29-52

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## 3.50 uclibc-0.9.33.2: test/regex/testregex.c, 1-31

regex(3) test harness

build: cc -o testregex testregex.c

help: testregex --man

note: REG\_\* features are detected by #ifdef; if REG\_\* are enums then supply #define

REG\_foo REG\_foo for each enum REG\_foo

Glenn Fowler < gsf@research.att.com>

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base64.cpp and base64.h

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René Nyffenegger rene.nyffenegger@adp-gmbh.ch

```
***** SHA1 Library (sha1/sha1.hpp) ******
```

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## 3.53 zlib-1.2.5: zlib.h, 4-23

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