Quick Start Guide PRTG Installation for GUDE Devices





PRTG Installation Guide for GUDE Devices

Dear Customer,

Our quality products enable the optimization and expansion of professionally operated IT infrastructures. Especially when it comes to industry-typical questions, our reliable IT solutions support the demanding user in **three central challenges**:

- 1. How can I increase the **energy efficiency** in my IT rack?
- 2. How can I increase the **reliability** of my business critical infrastructure?
- 3. How can I gain control over the status of my server environment?

In this context, the **PRTG Network Monitor Software** from Paessler offers the possibility to monitor and manage our products via one central application. A clearly arranged graphical user interface supports you in keeping track of your network devices. This way, you always have an overview of all relevant key figures of your server or rack environment.

Using our **Expert Net Control 2191** – a remote monitoring system – as an example, this manual shows you how to continuously monitor your IT-installations with Paessler's software in just a few steps.

You can obtain a license for PRTG Software as well as competent support regarding the monitoring tool from the company Paessler. If you have any questions about our products, please do not hesitate to contact our service staff.

Your GUDE Team



Good. Great. GUDE.

Keep an eye on your important IT environment with sensors and detectors: **Expert Net Control 2191** in interaction with **PRTG Network Monitoring Software**



Monitoring of business-critical infrastructure with our Expert Net Control 2191 complemented by a variety of sensors.



Clear display of measured data in the graphical user interface of **PRTG**.

1. Software Installation

To install the PRTG software, you first need a download link. This is available at the website from Paessler. The downloaded software is a 30-day trial version that allows you to monitor an unlimited number of sensors. When executing the provided link, following screen will pop up (Fig. 1):

Holen Sie sich PRTG kostenlos, um endlich zu erfahren was in Ihrem Netzwerk vor sich geht								
Einfach persönlichen Lizenzschlüssel anfordern								
Der Lizenzschlüssel wird an Ihre E-Mail-Adresse versendet	, und Sie können direkt mit der Installation von PRTG beginnen.							
Hinweis: Die erste 30 Tage läuft	PRTG uneingeschränkt als Vollversion.							
Danach können Sie PRTG mit 100	Sensoren für immer kostenlos nutzen.							
Bitte geben Sie Ihre E-Mail Adresse ein*	Name*							
Firma	Adresse							
Stadt	PLZ							
1	Telefor							
Bitte wählen Sie ein Land aus	Telefon							
Wie sind Sie auf PRTG aufmerksam geworden?								
Kostenlosen Lizer	nzschlüssel anfordern							

The download will start once all the necessary information have been filled out. Unzip the downloaded .zip-file and run the *PRTG Network Monitor xx.x.xxxx Setup*. Follow the instructions on the screen. If you purchased a full version from us, enter the name and license you received from us.

Fig. 1: Download of PRTG Software

We have prepared corresponding libraries to provide you with a quick and easy introduction to the PRTG software and our devices. All files and libraries

will be sent to you by e-mail upon request. After installing the PRTG software simply copy the files into the designated folders as shown in Tab. 1.

File name	Name of folder
.oidlib	C:\Program\PRTG Network Monitor\snmplibs
.odt	C:\Program\PRTG Network Monitor\devicetemplates
.ovl	C:\Program\PRTG Network Monitor\lookups\custom

Tab. 1: Designated folders for the library files

2. Login

Start the program *PRTG Network Monitor*. You will enter the web view of the PRTG software and get the following screen (Fig. 2):

PRTG Network M	onitor (EC2AMAZ-BPMFOS6)
Login Name Password	
	Login

Fig. 2:Login of PRTG Software

After logging in you will be redirected to the PRTG home page. Select "Devices" in the menu item and then "All" (Fig. 3) to get an overview of your connected devices in your network (Fig. 4).



Fig. 3: PRTG home screen

The device overview looks as shown in Fig. 4:

Home Devices Libraries Sens	sors Alarms Maps Reports	Logs Tickets Setup		New Log Entrie	s 5 <u>11 20</u> 1 3 W 148	✓ 4668 II 385 U 48 ? 7	Search Q
Group Root							F II 🖨 🖂 💭 🛪 🕇
Ouendew 2 days	20 dava 265 dava	A Alarma	The Management	Ö Sattings	Notification Triggory	O Commonto	1 History
	Ju days Ju days		→ Management	- Jettings		p commente	C Thistory
11 20 1 3 W 148 V 4668 11 385 0 48 7 7	7 (of 5279) S M L XL (Q)			Search	<u> </u>	Status: Default Interval:	OK 888 5 minutes
Root HQ (Local Probe)						ID:	#0
W3 Sens II 1 Sens V36	Sen U 2 Sens ? 5 Sens					● Add	Sensor
‼ WMI Fr W3 Sens ✓	/ 26 Sen						ASU_
Il Radiolo W1 Sens	10 Sen ✓ 17 Sen					Atlantic Ocean	SES TRA
B Server Hardware IRMC 0	/10 Sen √356 Se U 12 Sen						AFRICA
🕀 🖹 Demo Server							
Wissens_ ♥93 Sen E Pirtualization						25.0 2 days	100
!! Ping W6 Sens II	I 49 Sen ↓ 316 Se U 2 Sens					9 15.0 WW CONT WAY WW	40 2,31.9 20
B 🖆 OS II Disk Fr W4 Sens II	I 1 Sens ✓ 161 Se					100 100	230
E E Storage	15 Sana 1/254 Sa 1/2 Sana					30 ¹ dave	200
P Network						2 40.0 AND A 10 AND A	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
W 17 Sen_ II 88 Sen_ V	/ 748 Se U 8 Sens ? 1 Sens						
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🕀 🖹 Environment W 10 Sen 🗸 80 Sen U	3 Sens					600 365 days	MAN AND AND SO
E Security						20.0 May 1 May 1	a Ambal And att 200
I video c I System W	/4 SensV 149 SeU 2 Sens					0205.02 0205.02 0205.02 0205.02 0205.02 0205.02 0205.02	0202.02
II Azure S W8 Sens	I 2 Sens U 1 Sens					710	
⊞ Backup II 2 Sena ✓16 Sen						Alarms (#)	Response Ti (%)
Int Custom	150 San	_				CPU Load Ind(%)	(%)
Probe Checks	V Holde. Usidena. / Tisens						
✓15 Sen U 1 Sens							
PAESSLER 20.4.64.1402+ PRTG System Administra	ator 🛇 13-24 📕 Refresh in 1 sec					_	Contact Support ? Hele

Fig. 4: Device overview

3. Add devices with sensors

Before adding a GUDE device to the PRTG software, please make sure that the SNMP get and SNMP set settings are enabled for the respective GUDE device in the webinterface (Fig. 5).

Control Panel Configuration	Maintenance Logout	
Power Ports	\cdot IP Address \cdot IP ACL \cdot HTTP \cdot Sensors \cdot \underline{SNMP} \cdot Syslog \cdot E-Mail	
SNMP		
Enable SNMP options:	SNMP a <u>et SN</u> MP set	
	G	
	GUDE	

Fig. 5: Enable SNMP in webinterface settings

In the opened hierarchic structure of the PRTG software, right-click the *Local probe* entry. Select and execute "Add Group..." in the opened context menu (Fig. 6). After you have assigned a group name, you can then add a new GUDE device to this group.

To add a GUDE device right-click the previously created group and select "Add device...". Assign a distinct name for the device e.g., "Expert Net Control 2191". In the field *IPv4 Adress/DNS Name* specify the IP address of the device. Under *Device Identification and Auto-Discovery*, select the option "Auto-discovery with specific device template". If you have purchased a different device from us, you can find the corresponding device template using the search bar on the right (Fig. 7).

🛱 Root			
⊟Сно		Probe Menu	
e 🛱	C	Scan Now	
	Q	Details	
	Ø	Edit	>
	0	Add Group	
	0	Add Auto-Discovery Group	
	0	Add Device	
	↓AZ	Sort Alphabetically	
	ŵ	Delete	
	X\$	Move	>
	н	Pause	>
	1	Priority	>
E @		Historic Data	>
		Send Link by Email	
	47	Add Ticket	

Fig. 6: Adding a new group via the context menu

Add Device to Group Gude ENC2191	×
Add a New Device	
Define a device name and address, options for auto-discovery, and credential settings for Windows, Linux, VMware/XEN, and SNMP, if necessary.	
PRTG Manual: Add a Device	
Device Name and Address	
Device Name 🔍	
Expert Net Control 2191	
	_
IP version	
Connect using IPv4 Connect using IPv6	
IPv4 Address/DNS Name 🔍	
192.168.1.28	
Device Identification and Auto-Discovery	
Auto-Discovery Level 🔍	
O No auto-discovery	
O Standard auto-discovery (recommended)	
O Detailed auto-discovery	
Auto-discovery with specific device templates	
Device Templates 🔍	
expert Q	
Template Name	
Expert Net Control 2191	
Expert PDU Energy 8341	
Expert Power Control 8226	

After approximately one minute, the device and its' connected sensors will appear on the sensors overview page of your device. This overview looks, for example, as shown in Fig. 8.

Device Gud	e ENC2191 System 🏁 ★★★☆	2										II 🔒	
O Over	view 2 days	30 days	365 days	Alarms	System Information	🔲 Log	Settings		A Notification	Triggers	♀ Comments	1 His	story
Ping OK Ping Time O msec	0 1,968 msec	External Sensor 1 OK enc2191temp sen 22.60 °C 0	29.60 °C	OUDEADS-ENC2191-M OK OK off	R C C Den Sensor OK C Den C C Den C C C C C C C C C C C C C C C C C C C					Status: Sensors: DNS/IP: Dependency Default Inte Last Auto-D Last Recom ID:	: val: scovery: mendation:	OK W 4 ✓ 23 (cf 27) 10.49.66.30 ✓ Ping 5 minutes 616 days ago 664 days ago #71231	878 872
											• Add Ser	nsor	4411
Pos 🗸	Sensor 🗘		Status 🗘	Message			Graph	Priority 🗘		M	explatz a		
⊕ 1.	V Ping		Up	ОК			Ping Tembrid July (D.mehol	*****			Maxplatz	raße	
-‡ • 2.	SNMP System Uptime		Up	ОК			System Uptig	*****				arist	
4 3.	IP Trap receiver slot		Up	10.49.66.25			Pesponse Tin 3 piseo	******		20 2 day	/c	Marc 1.58 %	1.00
-+ 4.	Vumber of suppported Input Char	nels	Up	ОК			maximum act 12.#	*****		1.5 2 GG		และเป็นไม่	0.80 0.60 0.40
+ 5.	V POE Status Sensors		Up	ОК			POE Status no POE	*****		0.5 WWWW	n-halle-shiroddiwd	that, in Malabelate	0.20
4 6.	Vumber of Relay Ports		Up	ОК			port number 4 #	******		10.01	00300 00301 005300 005300 005301 123300 123301 123301 133301	04.01 00.00 04.01 06.00 04.01 12.50	
4 7.	GUDEADS-ENC2191-MIB enc2191	snmpaccess	Up	ОК			SNMP Versio: SNMP V 2c	*****		10.0 30 8	aÿs		-2.0
-‡ • 8.	GUDEADS-ENC2191-MIB enc2191	voltage info {1-2}	Up	ОК			enc2191state off	*****		0.0 Me: 002 N		naling	- 0.5
4 9.	Table(enc2191input: 1): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 1 {1-2}	Up	ОК			enc2191input hi	******		0202 2F.	22020 122020 122020 122020 122020 122020 122020	12.2020 12.2020 12.2020 12.2020 10.2021	
+ 10.	Table(enc2191input: 2): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 2 {1-2}	Up	ОК			enc2191input lo	*****		100.0 2005		* * * * * *	4
4 11.	Table(enc2191input: 3): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 3 {1-2}	Up	ОК			enc2191input lo	*****		80.0 - 305 8 60.0 40.0	days		20 10
4 12.	Table(enc2191input: 4): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 4 {1-2}	Up	ОК			enc2191input lo	*****		20.0 0.0	Managa 4	88888	50
4 13.	Table(enc2191input: 5): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 5 {1-2}	Up	ОК			enc2191input lo	******		01.02.21	01.05.20 01.05.20 01.05.20 01.05.20 01.05.20 01.05.20	01.09.20 01.10 01.11.0 01.12.10 01.12.10	01010
-+ 14.	Table(enc2191input: 6): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 6 {1-2}	Up	ОК			enc2191input lo	*****		Alarms	(#) Resp	onse Time Index (%)	
4 15.	Table(enc2191input: 7): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 7 {1-2}	Up	ОК			enc2191input lo	*****		CPU Load In	dex (%) 📕 Traffie	ndex (%)	
4 16.	Table(enc2191input: 8): 1.3.6.1.4.	1.28507.61.1.5.6.2.1 / 8 {1-2}	Up	ОК			enc2191input lo	******		_			

Fig. 8: Sensor overview for Expert Net Control 2191

4. Adding sensors manually

If you want to add more sensors manually, proceed as follows: Right-click the previously added GUDE device and select "Sensor creation". Under *Technology used?* Select the option "SNMP" and click on "Add SNMP Library" (Fig. 9).

ailability/Uptime ndwidth/Traffic eed/Performance	O CPU Usage Disk Usage Memory Usage	Hadeser Parameters Henook Infrastructure Castom Sensors Q library	Vindows Linux/mac0S Vintualization 0S	O Storage and File Server O Doud Services O Enail Server O Database	Ping SNAP WMI Performance Counters 1 Matching	O HTTP O SSH O Packet Sniffer O xFlow Sensor Types
	Search	Q library			1 Matching	Sensor Types
?						
ns ost s						
1 1 2 1	r fost ss r	res fost :	res tot	res lost i i i i i i i i i i i i i i i i i i i	rest for the second sec	

Fig. 9: Adding a new sensor

In the newly opened window select the "Gude.oidlib"-file (Fig. 10). If you cannot find such file please make sure the .oidlib-file has been copied to the correct folder (see Tab. 1 in chapter 1).

Dell systems management instrumentation.oidlib		
Gude.oidlib		
Hp laserjet status.oidlib		
Linux snmp (ax bgp disman etherlike host).oidlib		
Linux snmp (framework proxy noti v2).oidlib		
Linux snmp (ip net snmp noti ospf rmon smux).oidli	b	
Linux snmp (source tcp ucd udp).oidlib		
Paessler common oid library.oidlib		
Snmp informant std.oidlib		

Fig. 10: Choosing the right OID library

Add Sensor to Device Gude ENC21	91 System [10.49.66.30]		
< Cancel			
Basic Sensor Settings	Parent Tags O	ireland	
	Tags 0	anmpilbrarysensor X O	
	Priority ⁽¹⁾	***	
SNMP Library Specific	Library O	C: (Program Files (v86)(PRTG Network Menitor(snmplibs)(Gude_ENC2191.oldlib	
	Library OIDs		temp
	S MIB Module	Category	Name
	GUDEADS-ENC2191-MIB	enc2191sensor: 1	enc2191temp sensor
	If Value Changes	Ignore changes Trigger 'change' notification	

The GUDE device will be automatically detected and its parameters displayed. In the following example, an *Expert Power Control 2191* has been set up (Fig. 11).

Fig. 11: Display of the set up device

After the GUDE device has been automatically detected the screen will change to the following view (Fig. 12).

4 29.	? enterprises /	Unknown	No data yet	enc2191temp	No data	黄黄黄合合	
Fig. 12:	Polled sensors						

After approximately one minute, the sensors light up green and their values are displayed (Fig. 13):

-‡ • 29.	enterprises /	Up	ОК	enc2191tem/226 0.1 degre	***	
Fig. 13:	Sensors with status OK					

Right-click on the sensor to access the sensor's configuration menu via *Channel Settings*. Please note that it is important to enter the name of the sensor under *Basic Sensor Settings* (Fig. 14).

uery data from a probe device via SNMP (querying r.:1). <u>> Add this device to PRTG</u> with the IP addre work and create the SNMP sensor on this device the IPv6 protocol. performance impact.
Ise: <u>2 How do Find out which OID Freed for an Si</u>
Ba

Fig.14: Sensor settings

dit Object enterprises /	
✤ Settings	Channel Settings
Select Channel	
Channel	
Downtime (ID -4)	
enc2191temp sensor (ID 2)	
dit Channel "enc2191temn sensor"	
Name 0	
temp	
Unit 🖲	
°C	
Scaling Multiplication 0	
Scaling Division 🔍	

Under Channel Settings please specify the channel unit to display the correct unit with the graph. To do this, select the respective channel under Downtime. In this example it is enc2191 temp sensor (Fig. 15). In the Edit Channel tab, you can also set the desired decimal places and other configurations such as scaling and limits.

Fig. 15: Sensor channel settings

PRTG Installation for GUDE devices

5. Deleting a sensor

In case the device template has too many sensors for your use case, it is also possible to delete them individually: To delete the desired sensor, open the sensor overview of the GUDE device. Then select the sensors, which you wish to delete by clicking the checkbox at the end of the line. Clicking the trash can icon in the right sidebar will delete the sensor.

						Ð
Pos 🗸	Sensor 🗘	Status 🗢	Message	Graph	Priority 🗘	
⊕ 1.	ENC 2191 temperature	Up	ОК	enc2191tem£27 0.1 degre	黄黄黄合合	
4 2.	✓ Ping	Up	ок	PingaTippertol (Maliference)	*****	* +
4 3.	SNMP System Uptime	Up	ок	System Uptin 42 d	***	н.
4 • 4.	✓ IP Trap receiver slot	Up	10.49.66.25	Response Tin 3 msec	***	•
4 5.	Vumber of supported Input Channels	Up	ОК	maximum act 12 #	***	"
-‡ ∙ 6.	POE Status Sensors	Up	ок	POE Status no POE	****	8
4 7.	Vumber of Relay Ports	Up	ок	port number 4 #	***	۶

Fig. 16: Deleting a sensor

6. Saving modified device templates

Deleting sensors will change the device template of your device. You can save the changed device template to use it as a template for other devices later. To save a changed device template, open the device overview of the PRTG software. Right-click on the name and select "Create Device Template" (Fig. 17).

Then assign a new name for the device template. To be able to find the new device template later, make sure to use as unique names as possible. In this example the new device template is called "Gude Expert Net Control 2191 custom". The device template will be saved by clicking Continue (Fig. 18).

reate Device Template for Gude ENC2191 System			
Creating Device Templates			
To create a template that you can use for auto-discovery, you have to provide a template name in clear text. PRTG uses the clear name in the template list in the auto-discovery assistant. A template contains an entry for every sensor of the selected device. This entry contains all relevan sensor settings except settings that refer to other objects like schedules, triggers, or access rights. These settings revert to "inherited" when you create a sensor via a template.	t		
Note: There are sensor types that you cannot save into a device template. For a list of these sensor types, see PRTG Manual: Create Device Template			
Choose Template Name Template Name Template Name Coustom Toustom Tou			
You can exclude sensors from the template by setting the check mark in the list below. Note: Sensors that cannot be saved into device templates do not appear in this list. Note: Sensor types that dynamically scan for available monitoring items when you add the sensor to a device do not appear in this list. PRTG includes these sensors automatically into the template if they support template functionality and you cannot exclude them.			





Fig. 18: Assigning a name for the device template



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