

PT-Node Network Adapter for Printing and Data Transfer

PT-Node is an adapter that connects up to two Pharma Test instruments simultaneously to a network using a wired LAN or wireless WiFi connection. This way you can print test results from the instrument via your web browser on any local or network printer. Furthermore, it is possible to transfer the test results from the instruments to external systems in the same network. PT-Node launches with support for several different Pharma Test instruments and support for more instruments is planned.



A small OLED screen shows the network connection status of the device including its IP address. For the initial setup PT-Node creates a WiFi access point to which you can connect from your computer or smartphone to configure your network setting. Both wired LAN and wireless WiFi connections are supported with either static IP addresses or DHCP.

Once this initial setup is performed the display shows which instruments are connected to both channels of the PT-Node. An icon shows that PT-Node is currently receiving data and from which channel. The current date and time are displayed as well.

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Web Interface

Date /	Time: 14.6.2022, 18:57	:54
	Port 1	
Device family:	PTB 311E	~
File timeout:	OFF	~
Data folder:	PTB311E-300	
	Port 2	
Device family:	PTZ 300	~
File timeout:	3 s	~
Data folder:	PTZ300	

PT-Node is configured through a web interface that you can access through your desktop or mobile browser without installing any software locally. The connection setting for many Pharma Test instruments are pre-defined.

You can connect up to two instruments at the same time and they can simultaneously send data to PT-Node.

Through this device manager screen you can change what model of instrument is connected to either of the two channels of PT-Node.

	Da	te / Time: 1	4.6.2022, 18:59:53	
		Index	of /PTData	
	Name	Size	Date	
100	PTZ300/		Tue Jun 14 11:43:42 2022	_
	PT-TD300/		Tue Jun 14 16:56:58 2022	
	PTB311E-300/		Tue Jun 14 11:40:10 2022	
	PTB111E-800/		Mon Jun 13 17:21:18 2022	
	PTB420/		Mon Jun 13 17:21:56 2022	
	PTBA211E/		Mon Jun 13 17:22:14 2022	
	PTF100/		Mon Jun 13 17:22:28 2022	
	PTWS/		Mon Jun 13 17:22:40 2022	
	WHT/		Mon Jun 13 17:22:52 2022	
	PTZ-Auto2/		Mon Jun 13 17:54:20 2022	
-				

For each instrument a folder on the storage of PT-Node is created.

Index of /PTData/PTB311E-300	
1 [Parent directory]	
Name Size Date	
20220613_161859.txt 289 Tue Jun 14 11:40:34 2022	
test report a4.txt 1775 Tue Jun 14 11:52:36 2022	
test report ticket.txt 1105 Tue Jun 14 11:55:32 2022	
C 20220613_172159.txt 291 Tue Jun 14 11:58:18 2022	
□ freeweigh.txt 2125 Tue Jun 14 17:05:32 2022	
	_

In the folder all reports are listed including their date of creation.



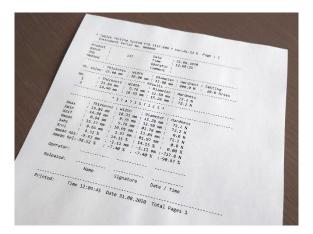
Report Printing

/PTData/PTB311E-300/test report ticket.txt

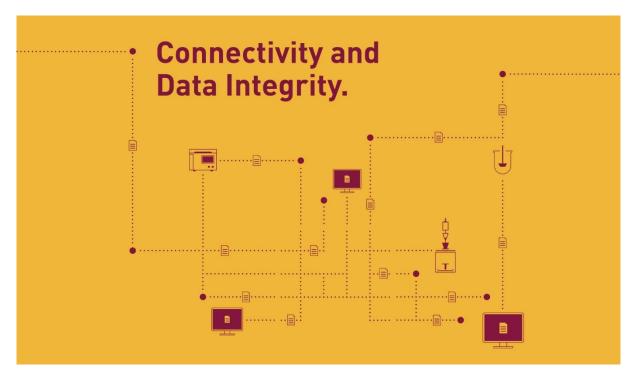
Table	et	Testing	Syster	n 1	PTB311	E - 8	00
V01.11	E	Instru	ment Se	er	ial No	. e	00000
Product	:						
Job	:						
Method	:						
Operator	• :						
Batch	:		22222 1	Sp	d: 20	.0	N/sec
Date	5	31.08.2	020 T	Lm	e: 17:0	94:	13
	:	Thick.:	Width	:	Diam.	:	Hardn.
	:	(mm) :	(mm)	1	(mm)	:	(N)
Ref.V.	2	5.00 :	5.00	2	10.00	:2	50.0
		R	esults				
No. 1	:	6.02 :	5.21	:	10.81	:2	52.0
No. 2	:	5.82 :	5.43	:	11.03	:2	66.2
	-	S	tatist	Lc	5		
		Thick.:					
	:	(mm) :	(mm)	:	(mm)	:	(N)
Xmax	:	6.02 :	5.43	:	11.03	:2	66.2
Xmin	:	(mm) : 6.02 : 5.82 :	5.21	:	10.81	:2	52.0
Xdif		0.20 :	0.22	:	0.22	-	14.2
Xmean	:	5.92 :	5.32	:	10.92	:2	59.1
Xabs	:	6.02 :	5.21	:	10.81	:2	52.0
		0.92 :					

Click on any report to view it in your web browser. The data can be displayed only. It is not editable.

From here you can print your report on any printer available from your computer. This can be a directly connected USB printer or any network printer. Of course, you can also use a PDF writer.



Data Transfer





PT-Node stores the data it receives from the connected instruments to its internal SD card. It makes the data available via network (Ethernet/TCP) either by a wired LAN or wireless WiFi connection. By default, connection to the network is made by DHCP but static IP addresses can also be configured. To perform the initial network configuration PT-Node creates a WiFi access point through which the web interface of PT-Node can be accessed.

🍒 Desktop - ptnode@192	2.168.0.35 - Wi	nSCP					· 🗆	×
<u>L</u> okal <u>M</u> arkieren <u>D</u> atei	<u>B</u> efehle <u>S</u> itzu	ng <u>E</u> instellungen <u>E</u> nt	fernt <u>H</u> ilfe					
🖶 🔁 違 Synchronisier	ren 🗾 🐓	👔 🛞 📦 Liste	• Übertragungsoptioner	Standard 👻	<i>🔁</i> -			
📮 ptnode@192.168.0.35	× 🚅 Neue	Sitzung						
🔩 C: Local Disk 🔹 🔹 🖆	- 🔽 -	🔶 🔹 🚽 🔹 🔁	🏠 🤁 🐾	PTData 🔹 🚰 👻 🔽 🔹		🖻 🗖 🏠 🥭 🔍	ateien suchen	2
🕞 Hochladen 👻 📝 Be	earbeiten 👻 🕽	🕻 🛃 🕞 Eigenschaft	ten 👋 🕂 — 🟹	Herunterladen 👻 📝 B	earbeiten 👻 🕽	🕻 🚮 🕞 Eigenschaften	» 🕂 –	V
C:\Users\bjoer\Desktop\				/PTData/				
Name	Größe	Тур	Geändert	Name	Größe	Geändert	Rechte	Be
		Übergeordnetes V	26.11.2021 16:39:07	 PTB111E-800 PTB11E-300 PTB420 PTEA211E PTF100 PT-TD300 PTWS PTZ300 PTZ-Auto2 WHT 		13.06.2022 17:21 14.06.2022 11:40 13.06.2022 17:21 13.06.2022 17:22 13.06.2022 17:22 14.06.2022 16:56 13.06.2022 17:22 14.06.2022 11:43 13.06.2022 17:54 13.06.2022 17:22		
) B von 0 B in 0 von 0			1 versteckt	0 B von 0 B in 0 von 10				
						FTP	0:00:	56

The result data stored on PT-Node can be accessed through a FTP connection. The data itself is stored in .csv files.



Supported Pharma Test Instruments

» Hardness testing instruments:





PTB 420/PTB 420 Auto

» Disintegration testing instruments:



PTB 311E/511E



WHT 4/WHT 3ME



PTB 330



PTBA 211E



PTZ 100/PTZ 300

» Friability testing instruments:



PTF 100 / PTF 200

» Powder testing instruments:



PT-TD300

» Leak testing instruments:





PTZ AUTO



PTZ AUTO EZ



PTF 300 / PTF 600



» Dissolution testing instruments:



PT-PSC Parallel to Serial Converter Adds Support for More Instruments

The PT-PSC parallel-serial converter enables Pharma Test instruments with parallel printer interface to be used with the PT-Node network adapter. Using the PT-PSC converter adds support for the following instruments:

PTZ AUTO 1-4 and PTZ AUTO 1-4EZ Disintegration Testers

These instruments feature a parallel printer port and a serial data port. Using the PT-PSC converter capturing the A4 print-outs via PT-Node is now supported. The serial result data does not require use of the PT-PSC converter.

PT-LT Leak Tester

This instrument features a parallel printer port only. Using the PT-PSC converter capturing these print-outs via PT-Node is now supported.

PTB 111E, PTB 311E, PTB 511E Tablet Hardness Testers

These instruments feature a parallel printer port and a serial port. The serial port is used to send print-outs in the Epson Ticket printer format or to send serial result data. Using the PT-PSC converter capturing the A4 print-outs via PT-Node is now supported. The Epson ticket printer format print-outs and the serial result data outputs do not require use of the PT-PSC converter.



Advantages

- » Connect up to two Pharma Test instruments at the same time
- » Use your existing printers to document your test results
- » Use both local and network printers as well as PDF writers
- » Use the same PT-Node for different Pharma Test instruments
- » Export test result via a network to external systems without a direct cable connection
- » No need to install any software locally

Features

- » Connect your Pharma Test instrument to your company network
- » Use either wired LAN and wireless WiFi connections
- » Print result reports via web browser on any local or network printer
- » Transmit test results to external systems like LIMS via a wired FTP connection
- » Configure PT-Node via a simple web-based interface

Standard Scope of Supply

PT-Node comes ready to use with the following standard scope of supply:

- » PT-Node device with ports to connect up to two instruments simultaneously
 - » LAN cable and power adapter
 - » Comprehensive documentation folder including:
 - » User manual
 - » QC/DQ testing certificate
 - » IQ documentation
 - » OQ documentation
 - » Conformity Declaration
 - » CE/EMC Declaration
 - » Instrument logbook

Options

» PT-PSC parallel-serial converter to support instruments with parallel printer ports



Technical Specifications

Parameter	Specification
Display	OLED screen shows network status, IP address, connected
	instruments and date & time
Configuration	Web-interface through web browser
Data storage	Internal SD card
Interfaces	2 x RS-232 serial port to connect up to two Pharma Test
	instruments, 1 x LAN port or WiFi to connect to network
Printer support	Printing via web browser on any local or network printer
Data access	FTP server connection
Power	115-230 Volt AC, 50/60 Hz
CE / EMC certification	All CE / EMC Certification provided
Validation	All IQ & OQ documents included

Features are subject to chance due to ongoing development. We reserve the right to make technical changes without any prior notice.