



# Perseus Concept Quick Start Guide

v. 1.0.4.; UPDATED: 29.11.2023

HU	UTL OUTS PART Pert Pert	Perseus Con x/1-Wire UNI x/2 Port3 Port4	Cept 4002 find R2 IN3 IN4	Ethernet	us.	
	5 Meters	20 Variables	3 Conditions 1 alarm Favourites	1 Actions		
<ul> <li>✓ 1.Temp</li> <li>★</li> <li>24.2</li> <li>C</li> </ul>	• Press 965.( hPa	*	<ul> <li>1.Humidity</li> <li>4.</li> <li>9</li> </ul>	★ 4.3	TVOC 0 ppb	*

**Congratulations!** You've got a HWg Perseus Concept 4002 unit at your desk. Please, remember that this is a pre-release Concept model, which means that the hardware of this sample is not final and does not correspond to the models that would actually be offered.

You have this device because as one of our trusted partners, we value your time and effort, and want you to familiarize yourself with the platform before it hits the market.

If you have any questions, comments or suggestions, please send them to <a href="mailto:support@hwg.cz">support@hwg.cz</a>

Please note that you may not sell or give away this product, nor may you disclose any information about this product, including potential features, prices, etc., to competitors. It's a concept, which means it may contain bugs or intentionally modified behavior. It's not intended for "production" operation - life, health, protection of property, etc. cannot depend on it. Possible exceptions are possible after consultation and obtaining permission from HW group s.r.o. This device does not contain a GSM modem.

#### Safety information

The device complies with regulations and industrial standards in force in the Czech Republic and the European Union. The device has been tested and is supplied in working order. To keep the device in this condition, it is necessary to adhere to the following safety and maintenance instructions.

Never remove the device cover if the relay terminals are connected to the electrical network!

Using the device in a manner other than prescribed by the manufacturer may cause its safeguards to fail!

The power supply outlet or disconnection point must be freely accessible.

The device must not be used in particular under any of the following conditions:

- The device is noticeably damaged
- The device does not function properly

- Unfastened parts can move inside the device
- The device has been exposed to moisture or rain
- The device has been serviced by unauthorized personnel
- The power adapter or power supply cable are noticeably damaged

• If the device is used in a manner other than designed for, the protection provided by the device may fail.

• The local electrical system must include a power switch or a circuit breaker and overcurrent protection.

The manufacturer warrants the device only if it is powered by the supplied power adapter or an approved power supply.

# Let's take a look at how this device works with the **1-Wire UNI THPVoc** sensor.

Connecting the sensor and finding the **Meter** 

- 1. Plug in the **THPVoc 1-Wire UNI sensor** to one of the six 1-Wire ports available at your device. We chose the Port 5.
- 2. Go to Monitoring -> Meters -> 1-Wire and click 1-Wire: Find

0	⊟ Me	eters								
	All (1)	Local (1)	1-Wire	Modbus RTU	Modbus TCP	HTTP XML	Virtual	MQTT	SNMP	
	Meter 1-Wi	rs action: re: Find								

- 3. Click Scan Meters
- 4. You should now see **4 meters** found with **1 variable** each:

OneWire: Scan Scan meters	
<ul> <li>Temp 1-Wire 28541ecc00ac0b9a</li> <li>1.Temp</li> </ul>	28541ecc00ac0b9a
Press     Press	26561ecc00ac0b8b
Humidity 1-Wire 26551ecc00ac0bd2       1.Humidity	26551ecc00ac0bd2
□ TVOC □ TVOC	26571ecc00ac0bbc

5. Check them and click **Save**. Now you have meters with variables available at the **Home Screen**:

≅ Me	eters								
All (5)	Local (1)	1-Wire (4) Modbus RTU	Modbus TCP	HTTP XM	IL Virtual	MQTT SN	MP		
물 1 <b>S</b> j	ystem Meter	1 Ok							Variables 16 🕶 💼
물 101	Temp 1-Wir	e 28541ecc00ac0b9a Ok			285	41ecc00ac0b9	a		Variables 1 🖜 💼
۲	101.101001	1.Temp Ok						Sensor	24.3
宮 102	Press Ok				265	61ecc00ac0b8	b		Variables 1 🕶
۲	102.102001	Press Ok					Se	ensor	965.8
물 103	Humidity 1-	Wire 26551ecc00ac0bd2 Ok	)		265	51ecc00ac0bd	2		Variables 1 🔹
۲	103.103001	1.Humidity Ok						Sensor	44.3
宮 104	TVOC Ok				265	71ecc00ac0bb	c		Variables 1 •
	104.104001	TVOC Ok						Sensor	0
Meter 1-Wir	rs action: re: Find M	odbus RTU: Add Modbus TC	P: Add Netwo	irk scan	Network: Add	Virtual: Add	MQTT: Add	SNMP: Add	

# Creating a Condition with the Variable

Let's say you want to define the **Safe Range** for the temperature variable.

1. You can go Variables or click the **Temperature variable** from the **Meters** tab.

Meters •	层 Temp 1-Wire 28541ecc00a	vc0b9a Variables •	🗠 1.Temp		
Configurat	ion			Ē	Details
Enable Name	I.Temp				<b>24.3</b> c
Home page favou Type Decimal digits Unit Calculation formu	I C I No calculation Measured value of	Affects value's calculation a	and display		ID 101001 Value 24.3 State Alarn high Dynamic view
i≡ Value N Value	ames Name				
🖑 Conditio	ons				•
ID Name	Enabled	<b>Min</b> 0	<b>Max</b> 0	Hysteresis	Delay 0 2 1

- As you can see, the Variable is in alarm, because the Min-Max thresholds are set to 0. Let's change the Max threshold to 30 degrees Celsius and click Save. The Variable would go from Alarm state to Ok.
- 3. You can create as many **Conditions** as you want, because each **Action** is made upon **Condition** and different **Conditions** could mean different **Actions**.

[>] C	onditions						•
ID	Name	Enabled	Min	Max	Hysteresis	Delay	
1	Condition 101.101001.1		0	30	0	0	
2	Condition 101.101001.2		-50	0	0	0	
3	Condition 101.101001.3		0	35	0	0	
		_	•		•	~	

 In this case, we created three **Conditions** that would trigger an action when the **Value** exceeds the threshold in any direction. Let's go to **Condition 1**, with the **Max** 30.

Meters •	宮 Temp 1-Wire 28541ecc00ac0b9a	Variables 🔹 🙆 1.Temp	Conditions • 🖉 Co	ondition 101.101001.1	
Configurat	on			Details	
Name Enable Min Max	Condition 101.101001.1   Condition 101.101001.1  30			ID State	1 Ok
Hysteresis Delay	0				
Schedule					
Active on	Always	× 🗵			
Output Actions		Assign action	<ul> <li>✓ Assign</li> </ul>		Create new Action
No actions assig	ned. Assign actions to be executed when t	ne condition parameters are m	et.		

### Create an Action upon the Condition

1. You can make a schedule upon **Condition** that would further modify the **Actions**. Right now, let's create a new Action as an Email:

New Action	×
Туре	
Email	~
II Name	
Temp alert	
	Close Create

 We will choose the execution filter to execute an Action when Any condition enters alarm state, and pick the Email Template 1 - pre-set one, and click Save.

⊙ Temp alert		<u>ا</u>
Name	Temp alert	
Enable		
Cooldown period	0	milliseconds
Туре	🖂 Email	
Template	Email Template 1 🗸 🗸	<u>Templates settings</u>
Suppress execution after device start		
Action targets		Target settings Edit
① This action needs to have a target in o	der to be executed	
Action triggers		
ී Conditions		Edit
Conditions trigger this action upon filtered	state change	
Execution filter (Execute action when):	<ul> <li>Any condition changes state</li> <li>Any condition enters alarm</li> <li>Any condition enters normal</li> <li>Every condition enters alarm</li> <li>At least one condition enters normal</li> </ul>	
	<ul> <li>Every condition enters normal</li> <li>At least one condition enters alarm</li> </ul>	
Image: Description         Image: Description of the section of	1e	Planners settings Edit

3. Now we need to create a **target**:

Add target	×
Name	
Temp 30 or above	
Email address	
@ alert@hwg.cz	
Phone	
vourphonenumber	
	Close Save

4. And assign it:

Assig	gn targets		×
1	Temp 30 or above	alert@hwg.cz	٥
	periou	Cl	ose Save

 That's it. Now whether your Perseus is connected to the SensDesk Technology based portal, or a private (or public, though we do not recommend such configuration) SMTP server, an **Alarm email** would be sent by the device to the target.

# Connecting another HW-group device to the Perseus unit

Perseus units are able to connect other HWgroup devices as **Meters**.



The easiest way to do this is to scan you local network, for example for a connected STE2 unit.

1. Go to **Monitoring** -> **Meters** -> Network scan in Meters action:

∃ 1 System Meter 1 Ok		Variables 16 🕶 💼
3 101 Temp 1-Wire 28541ecc00ac0b9a 🛛 💿 🖉 🔿 🛛 🛛 🔿	28541ecc00ac0b9a	Variables 1 🔻
3 102 <b>Press Ok</b>	26561ecc00ac0b8b	Variables 1 -
3 103 Humidity 1-Wire 26551ecc00ac0bd2 Ok	26551ecc00ac0bd2	Variables 1 🔻 🛅
3 104 <b>TVOC</b> OK	26571ecc00ac0bbc	Variables 1 -

#### 2. Find the device you want to connect to Perseus and click Scan variables:

□ 宮 STE2 LITE Prague Online	192.168.103.188	Model: 102	Scan variables
□ 😑 STE2 r2 5905-E7FB	192.168.103.155	Model: 91	Scan variables

#### 3. Check the found **Variables** and Save:

Meters - BSTE2 r2 5905-t	TFB				
Details					
ID: 601 Name: STE2 r2 5905 Type: Net Port: 0 State: Ck	-E7FB				
Configuration					Î
Enable					
Name:	STE2 r2 5905-E7FB				
Measure period:	10			Sec	
Device URL	192.168.103.155				
Device pathname	values.xml				
Authorization	Password				
			Manual Read	J	
Debug log					
					11
≅ Variables					Scan variables +
ID Nam	e	State	Value	Unit	Options
601001 Inpu	t 1	Ok	0		
601002 Inpu	t 2	Ok	0		
636186 Sens	or 35186	Ok	23.1	С	

Now the STE2 R2 device is a **Meter** within Perseus system, and all the sensors and detectors connected to it are available for further management as **Variables**. The same way they would as if connected directly.

Any HW group product: device, sensor, even an XML API output from the SensDesk account could be connected to the Perseus monitoring unit in the same way.

## Additional information

- 1) Before upgrading the firmware on Perseus Concept, please save the backup configuration file changes in structure are possible;
- 2) Perseus is not backwards compatible with Poseidon 2 series:
  - You can use 1-Wire sensors;
  - You can use HWg-Config;
  - SensDesk Technology based portal support may not be available right now, although it definitely would be with the release.

