



TEQSAS

LAP-TEQ PLUS

ATMOSPHERE



Instructions for use
LAP-TEQ PLUS
Atmosphere

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1 Before You Begin

1.1 Intended use

The LAP-TEQ PLUS Atmosphere is an additional sensor in the LAP-TEQ family for ambient temperature and relative humidity that can display the sensor values on the LAP-TEQ display.

The temperature can be displayed in °C or °F. The Atmosphere can be connected directly (without connection cable) to the LAP-TEQ display. Other LAP-TEQ sensors can be connected in series. During the start-up process, you can choose which sensor you want to see on the respective display options.

Any other use not described in these instructions for use is unauthorized misuse. The manufacturer is not liable for any damage resulting from this.

1.2 What do the symbols used mean?

Hazard warnings and instructions are clearly marked in the instructions for use. The following symbols are used:

⚠ Danger!	
	<p>Imminent danger of death or injury! Immediately dangerous situation that will result in death or serious injury.</p>

⚠ Warning!	
	<p>Probable danger to life or injury! Generally dangerous situation that may result in death or serious injury.</p>

⚠ Caution!	
	<p>Possible risk of injury! Dangerous situation that may result in injury.</p>


Attention!	
	<p>Risk of device damage! situation that may result in damage to property.</p>

Hint



Information that is given for a better understanding of the processes.

2 For your safety

⚠ Warning!	
	<p>Failure to comply with the safety instructions and instructions may result in electric shock, fire and/or serious injury!</p> <ul style="list-style-type: none"> ▶ Read all safety instructions and instructions.

2.1 General safety instructions

- Keep all safety notices and instructions for future reference. The term device used in the safety instructions refers to mains-powered devices (with a power cord) and battery-powered devices (without a power cord).
- Danger to life and accidents for small children and children! Never leave children unattended with packaging material and product. There is a risk of suffocation due to packaging material and danger to life due to strangulation. Children often underestimate the dangers. Keep children away from the product at all times. The product is not a toy.
- For safe use of this device, the user of the device must have read and understood these instructions for use before using it for the first time.
- If you sell or give away the device, be sure to hand over this instruction manual as well.
- This device is not intended to be used by persons (including children) with reduced physical, sensory or mental abilities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or receive instructions from him or her on how to use the device.
- The device may only be used if it is in perfect working order and fully assembled. If the device or part of it is defective, it must be taken out of service and professionally repaired or disposed of.
- Use the device only for the purpose for which it is intended.
- Keep children away from the device! Keep the device safe from children and unauthorized persons.
- Use and store the device only within the permissible environmental conditions (temperatures, humidity, etc.).

2.2 Job security

- Keep your workspace clean and well-lit. Clutter or unlit work areas can lead to accidents. Observe the workplace and accident prevention regulations in force in your country.
- Do not work with the electrical appliance in potentially explosive environments in which flammable liquids, gases or dusts are present. Power tools produce sparks that can ignite the dust or fumes.

2.3 Electrical safety

- In dry environments, static electricity can be generated. In dry rooms, touch a metallic object to discharge the static electricity before starting the device.
- Do not misuse the cables to carry, hang or unplug the appliance from the socket. Keep cables away from heat, oil, sharp edges, or moving device parts. Damaged or tangled cables increase the risk of equipment damage.
- If you are using the device outdoors, only use extension cords that are also suitable for outdoor use. The use of an extension cord suitable for outdoor use reduces the risk of equipment damage.

2.4 Safety of persons

- Be attentive, pay attention to what you're doing, and go about your work with reason. Do not use the device if you are tired or under the influence of drugs, alcohol or medication. A moment of carelessness during use can lead to serious injuries (e.g. electric shock).

2.5 Service

- Have your device repaired only by qualified personnel and only with original spare parts. This ensures that the safety of the power tool is maintained.
- When working with the device, make sure that there is sufficient lighting. Poor visibility can lead to an increased risk of accidents.
- Do not use accessories that are not specifically intended and recommended by the manufacturer for this device. Just because you can connect the accessory to your device doesn't guarantee trouble-free and safe use.
- The device may show signs of wear and tear over time.
- The use of non-approved accessories may result in damage or wear and tear that is not covered by the warranty.

2.6 Special Device Notes

- Do not use the device in potentially explosive atmospheres or near flammable liquids or gases!
- If you are allergic to the colour or metallic parts of the device, you may experience itching, eczema, or swelling of the skin. If this is the case, stop using the device and seek medical attention.
- Do not drop the device or expose it to vibrations.
- Falls, bending or deformation can damage the device or parts of it.
- Icons that are on your device must not be removed or covered. Notes on the device that are no longer legible must be replaced immediately.

Hint



Read and follow the instructions for use before use.

3 Product

3.1 Your device at a glance



1. LAP-TEQ port for additional sensors in daisy-chain operation
2. Output for measurement data
3. Pressure compensation valve for temperature, humidity and pressure sensor

4 Commissioning

4.1 Connection

The Atmosphere can be connected directly to the LAP-TEQ PLUS display (without a connection cable). Other LAP-TEQ sensors can be connected in series. During the startup process, you can choose which sensor you want to see on the respective display options.

By default, a combination of the measured values of both sensor types is displayed in daisy-chain operation.

4.1.1 Turn on Atmosphere

If only the atmosphere is to be read, the switch-on process differs slightly, depending on the reading device.


LAP-TEQ PLUS Display

1. If only the atmosphere is connected to the reading unit, the sensor can be started by simply switching on the reading unit.
2. In daisy-chain operation with additional sensors, the Atmosphere can be switched on by pressing and holding the *POWER-ON* button twice.

LAP-TEQ Motion Remote

1. If only the atmosphere is connected to the remote, *the sensor can be activated* by simply pressing the LAP-TEQ button.
2. In daisy-chain mode, you start the atmosphere by double-clicking on the *LAP-TEQ* button. Double-clicking for the first time selects PORT-A on the LAP-TEQ Motion Receiver, and double-clicking again takes you to PORT-B and PORT-C.

5 Cleaning and maintenance

⚠ Danger!	
	<p>Danger to life due to electric shock!</p> <ul style="list-style-type: none"> ▶ Before working on the device, pull the XLR cable to the display module (power supply).

Attention!	
	<p>Risk of device damage!</p> <ul style="list-style-type: none"> ▶ Do not submerge the appliance in water when cleaning, as this can cause water to penetrate the electrical system and damage it.

Attention!	
	<p>Possible product damage!</p> <p>The surface may be damaged.</p> <ul style="list-style-type: none"> ▶ Do not use scratching or abrasive objects or aggressive cleaning agents for cleaning.

- ▶ To clean the case, use a soft, lint-free cloth moistened with mild soapy water.
- ▶ Avoid chafing on the display pane and on the glass pane that closes the laser outlet opening
- ▶ Do not use chemicals, cleaning agents or solvents. This can cause discoloration and corrosion of the outside of the device, or result in electric shock or fire.

6 Faults and help

⚠ Caution!	
	Risk of injury! Improper repairs can cause your device to stop working safely. You are endangering yourself and your surroundings

Often, it is only small errors that lead to a malfunction. Most of the time, you can easily fix them yourself. Please refer to the table below first before contacting the dealer. This will save you a lot of effort and possibly also costs.

If the device needs to be serviced, take it to your distributor.

Error/Fault	Cause	Remedy
"??" appears on the display	The sensor switches off after about 10 minutes, as the temperature in the housing rises during operation.	Device can be restarted after a short time
Device does not work	Device defective?	Contact Service

If you are unable to fix the error yourself, please contact our service directly. Please note that improper repairs will also void the warranty claim and you may incur additional costs.

6.1 Service Center

TEQSAS GmbH

Otto-Hahn-Straße 20a

50354 Hürth

Germany

Phone: +49 (0)2233 611-500

E-Mail: service@teqsas.de

7 Storage

- ▶ Clean and dry all parts and store them in a clean and dry place.
- ▶ If you do not use or transport the device for a longer period of time, use the original packaging.

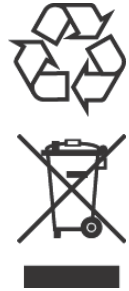
8 Disposal

The packaging is made of environmentally friendly materials that you can dispose of at the local recycling points.

Appliances marked with the adjacent symbol must not be disposed of with household waste. You are obliged to dispose of such waste electrical and electronic equipment separately.

You can find out how to dispose of old appliances from your municipal or city administration.

With separate disposal, you send the old equipment for recycling or other forms of reuse. In this way, they help to prevent harmful substances from entering the environment.



9 Specifications

LAP-TEQ PLUS Atmosphere

Ab. Ambient temperature for use	0 – 40°C
Ab. Ambient temperature for storage	-20 – 50°C
Dimensions	102 x 25 x 31mm
Weight	86g

The manufacturer reserves the right to make technical changes to the product/product group without prior notice.

10 EC Declaration of Conformity



in accordance with EU Directive 2014/30/EU (electromagnetic compatibility) of 26 February 2014

We hereby declare that the following device complies with the essential safety and health requirements of EU Directive 2014/30/EU in its design and design as well as in the design placed on the market by us. In the event of a modification of the device that has not been agreed with us, this declaration loses its validity.

Manufacturer: Teqsas GmbH
Otto-Hahn-Straße 20a
50354 Hürth

The manufacturer is solely responsible for issuing this declaration of conformity.

Description of the device:

- LAP-TEQ PLUS Display
- LAP-TEQ PLUS Atmosphere

as well as their structurally identical or construction-related derivatives.

Compliance with other directives/regulations/standards also applicable to the product is declared, insofar as the product is used in accordance with OStRv 2010 and the corresponding TROS version 2015.

- **RoHS Directive 2011/65/EU** of 8 June 2011
- European Standard **EN 60825-1:2014**

The country-specific laser protection conditions must be observed under all circumstances.

Place and date of exhibition:

Hürth, September 1, 2019

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