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Gustometer GU003



- Use of up to 5 liquids, dilutable and mixable via software
- Optional expansion of flavor channels possible, mixable and dilutable via software
- Self-explanatory, simple user interface
- Standard USB port for connection to the PC
- Android APP for Tablet use
- Interface for transferring class data and time information to an external recording device.
- Ability to trigger external devices or to be triggered by external devices (e.g. PC with E-Prime).
- Operation either with in-house compressed air or with the supplied pressure pump
- Medical approval according MDR (EU 2017/745) pending

Areas of application

The Gustometer was specially designed for use in clinical and industrial research. The focus is on experiments for the derivation of evoked potentials as well as the area of food and stimulant research. We will be happy to implement customer-specific adaptations or extensions.

Brief description

The GU003 is a complex device for creating clearly defined, reproducible tasting stimuli on the tongue.

All liquids are heated to exclude tactile or thermal stimulation and to fully preserve the natural sensitivity of the tongue. A special spraying principle makes it possible for the rising edges to be less than 50 ms, thus enabling the derivation of gustatory evoked potentials (GEPs).

Technical data

Basic device Total weight (empty): Total width: Total depth: Total height: Protection class:

150 kg 1 m plus connection hose (at least 0.2 m in addition for hose bend) 0.75 m 1.55 m (1.95 m with opened splash guard) IP 21

Connection hoseWeight (empty):1.5 kg + 0.5 kg/mLength:up to 12 m, according to customer specifications (minimum 2m)Largest diameter from device:<50 mm (a wall bushing of 50 mm diameter is sufficient)</td>



COMPETENCIES

- Special device construction
- Prototype construction
- In-house and hardware-related design
- Programming
- PCB design development

SERVICES

- Technical support on-site and remotely
- Installation and setup
- Maintenance
- Application Support
- Soft- and hardware-support
- Guarantee
- Sales and distribution

FIELDS OF

- Laboratory applications
- Quality monitoring
- Research
- Product development
- Diagnosis
- Therapy

CONTACT

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DESIGN APPLICABLE IDEAS

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Continued Technical data

Electrical data Mains connection: Power consumption main device

Interfaces:

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- USB / Bluetooth / Wifi- 25-pin SUB-D (Stimulus data output)

230 VAC, 50 Hz or 110 VAC 50- 60 Hz

Switched on, standby: 86 VA

Maximum in operation: 1400 VA

- Trigger Out
- Class type information
- Trigger In + UDP remote control software interface (via software)

<u>Computer (technical requirements for the PC)</u> (Note: PC is not within scope of delivery):

- Windows 10 (Windows 7 runnable, but no support).
- 4GB RAM minimum, 8GB or more recommended
- Dual core processor minimum, 4 cores or more recommended
- Minimum effective resolution of 1280x1024 at 32 bit colour depth. (Note: Scaling affects resolution)

Additional continual supply requirements

Compressed air supply:	1 litre / minute; purified compressed air
(only in case of external supply)	At 3 to 16 bar (43.5 to 232 psi)
Ranges and precision	
Temperature measurement:	1.0 to 49.0 °C +/- 1 °C
Input pressure measurement:	0 to 3000 mbar +/- 20 mbar
Ambient conditions	
Operating temperature:	+10°C to +40°C
Storage temperature:	0°C to +70°C
Rel. humidity during operation:	10% to 75% - non condensing
Rel. moisture in storage:	10% to 80% - non condensing
Operation and storage without frost, dew, dripping water, rain, direct sunlight.	

Subject to alterations.



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