Medical devices Measuring devices Special equipment Customized development Inhouse-prototyping Assembly and Service



page 1 of 3

# **Gustometer GU002**



Figure: GU002 (Variant GM5)

# 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.

Registered at district court Pinneberg HRB 8141 PI - managing director: Torsten Burghart - VAT-ID: DE 265 996 129



Burghart Messtechnik GmbH Uetersener Strasse 6 25488 Holm (Germany) Tel: +49 4103 80076-0 Fax: +49 4103 80076-29 Email: info@burghart-mt.de Web: www.burghart-mt.de

 HypoVereinsbank Hamburg

 BIC: HYVEDEMM300 IBAN: DE75 2003 0000 0001 3300 00

 Commerzbank

 BIC: COBADEFFXXX IBAN:DE47 2004 0000 0334 0809 00



Medical devices Measuring devices Special equipment Customized development Inhouse-prototyping Assembly and Service



# **Brief description**

The GU002 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).

# Features

Up to 5 liquids can be used, which can be mixed and diluted by software. However, these should have a similar viscosity to water. The modular design makes the device easy to expand and maintain. The GU002 has space for extensions of taste channels that can be mixed and diluted by software. The PC software is designed to simplify the user interface and reduce the risk of operator error. The PC and gustometer connect via a standard USB port. Furthermore, the gustometer provides an interface for transferring class data and time information to an external recording device. The unit can trigger external devices or be triggered by external devices (e.g. PC with E-Prime). The unit can be operated either with in-house compressed air or, with the supplied pressure pump.

## **Basic device**

Total weight (empty) Total width

Total depth Total height Protection class

## **Connection hose**

Weight (empty) Length Greatest diameter from device

## **Electrical data**

Mains connection Power consumption main device 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

1.5 kg + 0.5 kg/m up to 12 m, according to customer specifications <50 mm (a wall bushing of 50 mm diameter is sufficient)

230 VAC, 50 Hz or 110 VAC 50- 60 Hz Switched on, standby: 86 VA Maximum in operation: 1400 VA

Registered at district court Pinneberg HRB 8141 PI - managing director: Torsten Burghart - VAT-ID: DE 265 996 129



Burghart Messtechnik GmbH Uetersener Strasse 6 25488 Holm (Germany) Tel: +49 4103 80076-0 Fax: +49 4103 80076-29 Email: info@burghart-mt.de Web: www.burghart-mt.de

<u>HypoVereinsbank Hamburg</u> BIC: HYVEDEMM300 IBAN: DE75 2003 0000 0001 3300 00 <u>Commerzbank</u> BIC: COBADEFFXXX IBAN:DE47 2004 0000 0334 0809 00



Medical devices Measuring devices Special equipment Customized development Inhouse-prototyping Assembly and Service



page 3 of 3

#### Interfaces

- USB
- 25-pin SUB-D (Stimulus data output)
Trigger Out
Class type information
Trigger In + UDP remote control software interface

## Computer

No PC is supplied. Technical requirements for the PC to be provided:

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. (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: Input pressure measurement: 1.0 to 49.0 °C +/- 1 °C 0 to 3000 mbar +/- 20 mbar

## Ambient conditions

Operating temperature Storage temperature Rel. humidity during operation Rel. moisture in storage +10°C to +40°C -25°C to +70°C 10% to 75% 10% to 80%

Operation and storage without frost, dew, dripping water, rain, direct sunlight.

Registered at district court Pinneberg HRB 8141 PI - managing director: Torsten Burghart - VAT-ID: DE 265 996 129



Burghart Messtechnik GmbH Uetersener Strasse 6 25488 Holm (Germany) Tel: +49 4103 80076-0 Fax: +49 4103 80076-29 Email: info@burghart-mt.de Web: www.burghart-mt.de

<u>HypoVereinsbank Hamburg</u> BIC: HYVEDEMM300 IBAN: DE75 2003 0000 0001 3300 00 <u>Commerzbank</u> BIC: COBADEFFXXX IBAN:DE47 2004 0000 0334 0809 00

