

UniSampler Ex

Directions for use



711 53143000

UniSampler Ex

General safety requirements

- ▶ Read these directions for use carefully before using.
- ▶ Keep these directions for use where they will be accessible for all users.
- ▶ Failure to comply with the directions for use shall render all warranty conditions null and void and may lead to personal injury and material damage.
- ▶ The instrument must only be used by qualified skilled employees.

Safety instructions before using

- ▶ Follow the manufacturer's instructions and safety instructions of the medium you are sampling.
- ▶ Damage to the respiratory tract and other organs due to off-gassing media. Use in ventilated rooms or under a suitable exhaust hood.
- ▶ When working with explosive substances, follow the technical rules for combustible liquids (in accordance with TRBF – (German) Technical Rules on Combustible Liquids) and wear appropriate protective equipment (explosion zone 0, see annex).

WARNING!

- Possible sparking due to electrostatic discharge. Danger of explosion if combustible liquids are used.
- ▶ Connect the earthing terminal ⑥ before use.
 - ▶ Wear the necessary protective clothing.

Safety instructions during and after use

CAUTION!

- Liquid entering the instrument due to overfilling or tipping. Bodily injury due to escaping liquid and damage to the instrument.
- ▶ Shut down and secure the instrument immediately.
 - ▶ Contact the dealer or manufacturer.

- ▶ The instrument must only be used within the confines of applicable material resistance and for its designated purpose. Any other type of use will affect the warranty/guarantee.
- ▶ The instrument is not suitable for cleaning in a dishwasher.

Layout and function

The instrument is made of conductive material and is suitable for filling non-aggressive, combustible liquids (group IIA and IIB, see annex). The instrument is maintenance-free.

Scope of delivery

| | | |
|-----|--|---|
| 1 x | Vacuum pump | ① |
| 1 x | Sample bottle with closure, 1000 ml (glass, GL45 thread) | ② |
| 1 x | Suction hose (PVC, 0,2 m) | ③ |
| 1 x | Suction hose (NBR, electrically conductive, 4.0 m) | ④ |
| 1 x | Earthing clamp | ⑤ |
| 1 x | Universal adapter for sample bottles | ⑥ |
| 1 x | Tube weight (brass) | ⑦ |
| 1 x | Bottle stand (PVC) | ⑧ |
| 1 x | Direction for use | ⑨ |
| 1 x | Transport case | ⑩ |

- ▶ Check delivery for completeness and transport damage.
- ▶ Point out any damage in the packaging to the freight forwarder/supplier immediately.

Assembly

WARNING!

- Possible sparking due to electrostatic discharge. Danger of explosion if combustible liquids are used.
- ▶ Connect the earthing terminal ⑤ before use.
 - ▶ Wear the necessary protective clothing.

1. Insert the sample bottle ② into the bottle stand ⑧.
2. Attach the adapter for sample bottles ⑥ onto the sample bottle (the rear end of the earthing wire must be in the bottle).
3. Connect the earthing clamp ⑤.
4. Place the free end of the suction hose the liquid to be sampled.
5. Depending on the sampling location, put the hose weight ⑦ onto the suction hose. The hose weight improves the stability of the suction hose.

Safe sampling

1. Activate the handle of the vacuum pump and pump liquid into the sample bottle.
2. To complete sampling, press the valve lever ⑨ on the vacuum pump.
3. Remove the adapter for sample bottles from the sample bottle and seal it.

CAUTION!

After activating the handle, the pump will continue to suck liquids. Liquid entering the instrument. Bodily injury due to escaping liquid and damage to the instrument.

- ▶ Deaerate the pump with the valve lever in good time.

CAUTION!

Liquid entering the instrument due to overfilling or tipping. Bodily injury due to escaping liquid and damage to the instrument.

- ▶ Shut down and secure the instrument immediately.
- ▶ Contact the dealer or manufacturer.

After taking the sample

Rinse the suction hose (together with the hose weight), sample bottle and adapter for sample bottles with a pH-neutral liquid.

Troubleshooting

| Problem | To eliminate the error |
|--|--|
| Pump is not generating a negative pressure | Adapter is not attached properly onto the sample bottle. Vacuum pump faulty (contact dealer or manufacturer). |

Accessories

| Type | Specification | Number | Item No. |
|--------------------------------------|---------------|--------|--------------|
| Sampling bottle (Glas, GL 45 thread) | 1000 ml | 1 | 711 53140100 |

More accessories can be found at www.buerkle.de

Annex

Operational directive in accordance with 1999/92/EC:

| | |
|--------|--|
| Zone 0 | a potentially explosive atmosphere is assumed to be continuously present |
| Zone 1 | a potentially explosive atmosphere is assumed to be occasionally present |
| Zone 2 | a potentially explosive atmosphere is not anticipated (and if it does occur, then only rarely and briefly) |

Product directive in accordance with 94/9/EC:

| | |
|-----------|--|
| Group I | for use in mining |
| Group II | for use in other areas subject to explosion hazard |
| Group IIA | Maximum permitted gap > 0.9 mm |
| Group IIB | 0.5 mm < maximum permitted gap < 0.9 mm |
| Group IIC | Maximum permitted gap < 0.5 mm |