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# Dräger accuro
# Pump for Gas Detection Tubes

Fast measurement with one hand: The Dräger-Tube pump accuro allows you to use the established Dräger-Tubes to take measurements under extreme conditions. The easy-to-use Dräger-Tubes have already been calibrated and form a perfect unit with the Dräger-Tube pump.




**Integrated end of stroke indicator**
Clear indication when a stroke is ended

**Integrated stroke counter**
For easy monitoring of the number of strokes made

**Integrated tube opener**
Simple scoring of the tubes using a ceramic blade for clean opening

**Hard-wearing EPDM rubber housing**
Robust rubber mixture for reliable operation

**Pump bellows**
Precise volumes for a long period of time

**Scissor-spring mechanism**
For a uniform compression of the pump bellows with one hand

ST-2436-2003

Dräger. Technology for Life®

# Benefits

### Mobile spot measurement

This manual pump is used for spot measurements such as the detection of concentration peaks, confined space entry, worst-case scenarios etc.

### Functional bellows pump

The Dräger-Tube pump accuro draws in 100 ml per stroke. When measuring, the pump body (bellows) is pressed together completely. The exhaust valve is closed during the opening phase of the bellows so that the gas sample flows through the connected Dräger-Tube into the pump. After the complete opening of the pump body into its original position the suction process is finished. The end of stroke is visible by a pressure-controlled end of stroke indication, located in the pump head.

### Sampling

During the sampling process the substances to be evaluated are firstly accumulated on a suitable carrier material, e.g. activated charcoal, silica gel and so on. The air to be evaluated is thereby drawn over the respective material - with a predefined flow rate and duration. Afterwards, the substances that have accumulated on the carrier material through adsorption or chemisorption are examined qualitatively and quantitatively in the laboratory using instrumental analysis such as gas chromatography.

### One-handed operation

Frequently, measurements need to take place under extreme conditions, e.g. on ladders, in shafts or when wearing heavy breathing protection. The Dräger-Tube pump accuro can easily be operated with one hand and enables a reliable measurement also in difficult-to-access places.

## System Components



ST-36-2001

### Dräger-tubes® for short-term measurements

The Draeger short-term detector tubes have proven to be a very cost-effective and reliable way to measure toxic gases and vapors in the workplace.



2-925-91

### Dräger sampling tubes and systems

High precision guaranteed: The Dräger sampling tubes and systems are very reliable in use even with complex compounds and mixtures of substances.

## Accessories



ST-1990-2005

### Dräger TO 7000

Using the tube opener Dräger TO 7000, conventional Short-Term Tubes as well as Ampoule and Double Tubes can be opened safety with few jagged edges left behind.

# Accessories



ST-14319-2008

## Dräger accuro extension hoses

For use in hard-to-access locations such as shafts.

Available in the following sizes:

- 1 m
- 3 m
- 10 m
- 15 m



D-13066-2010

## Hot air probe

Enables the measurement of extremely hot gases, e.g. in combustion plants (up to 650 °C).



D-13067-2010

## Vehicle exhaust probe

For measuring exhaust gases from internal combustion engines.



D-13069-2010

## Bar probe 400

Is used for clearance measurements in containers, e.g. intermodal shipping containers.

# Related Products



D-12091-2010

## Dräger X-act® 5000 Basic

The automatic tube pump Dräger X-act® 5000 Basic is the all-in-one solution designed for measurements with Dräger short-term tubes and for sampling tubes and systems. Ease of operation and a high degree of reliability compliment the measurement and sampling of gases, vapors and aerosols.

## Technical Data

| | | |
|---|---|---|
| Dimensions (W x H x D) | 170 x 45 x 85 mm (6.7 x 1.8 x 3.3 in) | |
| Stroke volume | 100 ±5 $cm^3$ | |
| Weight | 250 g 8.8 oz | |
| Ambient conditions | Temperature: -20 °C to +50 °C (-4 °F to +122 °F)<br>Relative humidity: 0 – 95 % non-condensing | |
| Approvals | CE-certified (EN 0158) | |
| | ATEX | I M1<br>II 1GD IIB 85°C T6<br>II 2G IIC T6<br>-20 °C ≤ Ta ≤ +50 °C |
| | DIN EN ISO | 17621 |

## Ordering Information

| **Description** | **Content** | **Order no.** |
|---|---|---|
| Dräger accuro | Gas detector pump Dräger accuro and tube opener Dräger TO 7000 | 64 00 000 |
| Soft-Side accuro kit | accuro pump, tube opener, spare parts, allen tool, and nylon case | 83 17 186 |
| Hard-Side accuro kit | accuro pump, tube opener, spare parts, allen tool, rubber caps and molded case | 40 56 443 |
| Spare parts kit for Dräger accuro | 6 x valve disc, 1 x window, 3 x membrane, 1 x insert and 1 x grommet | 64 00 220 |
| Extension hose 1 m | Incl. adapter for Simultaneous Test Set | 64 00 561 |
| Extension hose 3 m | Incl. adapter for tubes and adapter for hose in a carrying box | 64 00 077 |
| Extension hose 10 m | Incl. adapter for tubes and adapter for hose | 64 00 078 |
| Extension hose 15 m | Incl. adapter for tubes and adapter for hose | 64 00 079 |
| Tube opener Dräger TO 7000 | | 64 01 200 |
| Adapter for Dräger simultaneous test set | Incl. cutting holder and adapter | 64 00 090 |
| Additional accessories upon request. | | |

# Notes

# Notes

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