

Dräger FG4500 Flue gas measuring device for service and maintenance work

The new flue gas measuring device is extremely handy, light and powerful and ideal for service and maintenance work. The device is equipped with an above-average large and touch-sensitive touchscreen, which guarantees the user an extremely comfortable and easy application. Last but not least, it can also be operated particularly intuitively thanks to its extremely smart and well-structured device software.



Product advantages

Service and maintenance

Everything a measuring instrument should offer according to general requirements is cleverly accommodated in the Dräger FG4500. The flue gas measuring device offers various applications needed for service and maintenance work on small and medium-sized gas and oil firing systems. With flue gas, temperature and pressure measurements all important parameters of the combustion system are recorded.

Handy, light and user-friendly

The Dräger FG4500 is significantly more compact and robust than other measuring devices on the market. With its large 3.5" touch screen, the FG4500 not only offers user-friendly operation, it can also be used particularly intuitively thanks to extremely smart and well-structured device software. Weighing only 425 g, the FG4500 is an absolute lightweight and fits comfortably in the hand. As slim and light as the measuring device is, it can withstand rough operating conditions without any problems thanks to its very robust housing.

Equipped with Bluetooth LE as standard

The Dräger FG4500 is equipped with Bluetooth LE as standard.

Protected preconditioner

The preconditioner is integrated in the unit and thus protected from impacts. An innovative system also guarantees quick replacement of the filter material.

Fastening Kit

The combination of Velcro and magnet guarantees a flexible and adaptable application.

Personalise your device

A company logo can be inserted on the start screen. This turns the Dräger FG4500 into your personal device.

USB Type C (USB-C)

The USB type C has a symmetrical plug. So it no longer matters how it is plugged in. In addition, even faster charging is possible, even on the go, such as in the car via USB connection.

Robust equipment case

The new equipment case is extremely robust and splash-proof. The lid has a load capacity of 100 kg. The stackable system guarantees easy and flexible connectivity, i.e. several cases can be stacked on top of each other, even if the cases have different sizes. This feature is particularly practical when several suitcases have to be transported at the same time. The case also offers an extra carrying handle in the lid for even more comfort. Thanks to the practical division inside the case, accessories can be easily stowed away.

Office-to-go with the Dräger mCon app

The app ensures the best mobility and immediate access to all current measurement data. Via Bluetooth, all data is transferred directly from the measuring device to the smartphone or tablet. Measurement protocols with company logo and data are easily and quickly available as pdf and can be sent by e-mail.



iOS



Product advantages

Extensive documentation options

Maximum ease of use also includes optimal measurement and customer data management with import and export functions for customer data. Measurement results can be saved and transferred to the PC. The measurement data is linked to customer or plant data and output by means of ready-made measurement reports with company logo and address. Alternatively, the measurement data can be printed out on site via a Bluetooth printer.

Accessory

abgassonde-pr-ph-5600890.jpg



Gas probe

brennerdruckschlauch-mit-bajonettschluss-pr-ph-5610901



Gas pressure hose with bayonet connector



Equipment case 4x00

Extremely robust, splash-proof case with stacking system

Related product groups



fg7500-prph-5603105

Dräger FG7500

For measuring oxygen, carbon monoxide, nitrogen oxides, combustion air temperature, exhaust gas temperature, draft and differential pressure or for carrying out the BlmSchV measurement. The capacitive color touchscreen enables effective use. As with smartphones, scroll lists, buttons, icons and windows are conveniently controlled with tapping and swiping gestures.



5600022

Dräger EM200plus

For measuring oxygen, carbon monoxide, combustion air temperature, exhaust fume temperature, micro-draft, fine draft and differential pressure. Additional equipment can be connected to the multifunction jack. A colour touch screen, built-in help function and extensive measurement and customer data manager complete this versatile product.



5600739

Dräger VARIOx-2

In addition to adjustment tasks, the single-channel device can optimise combustion for energy conservation or short-term emission measurement. It reviews limits and is suitable for process analysis.

Technical data

Approval	DIN EN 50379 Teil 1 and 3
Display	Colour display with touch screen
Interface	Bluetooth LE for smartphone and printer
Power supply	Rechargeable battery: Li-Ion, 3.6 V / 2,700 mAh; power adapter: 5 V DC / 1.5 A
Operating time	Up to 8 h
Gas extraction	Membrane pump for transporting flue gas
Gas conditioning	Flexible position gas conditioning cartridge with condensate collector and particle filter
Operating temperature	+ 5 °C ... + 40 °C
Storage temperature	- 20 °C ... + 50 °C
Air pressure	800 ... 1,100 hPa
Humidity	10-90 % RH non-condensating
Dimensions	90 x 230 x 35 mm (hxwxd)
Weight	Approx. 425 g

Display	Principle of measurement	Measuring range	Resolution	Accuracy
Combustion air temperature	Thermocouple	- 10 ... + 100 °C	0.1 °C	± 1 °C
Temperature flue gas	Thermocouple	0 ... + 600 °C	0.1 °C (<100 °C) 1 °C (≥100°C)	± 2 °C or 1,5 % of MV ²
O ₂ , oxygen	El.-chem. sensor	0 ... 25 Vol. %	0.1 Vol. %	± 0.3 Vol. %
CO, carbon monoxide	El.-chem. sensor	0 ... 8,000 ppm	1 ppm	0 ... 2,000 ppm: < ± 20 ppm or < ± 5 % of MV* 2,000 ... 4,000 ppm: < ± 10 % of MV*
Draft ¹		- 50 ... + 200 Pa	1 Pa	± 2 Pa or 5 % of MV ²
Pressure ¹		0 ... + 100 hPa + 101 ... 160 hPa	0.01 hPa 0.1 hPa	± 0.5 hPa or 1 % of MV ² 5 % of MV ²

¹ = Pmax. 750 mbar

² = Measuring Value

Calculated measurement data			
CO, undiluted	calculated	0 ... 9,999 ppm	1 ppm
CO ₂ , carbon dioxide	calculated	0 ... CO ₂ max.	0.1 Vol. %
Flue gas loss	calculated	0 ... + 100 % - 20 ... + 100 % ³	0.1 %
Efficiency	calculated	0 ... 120 %	0.1 %
Excess air	calculated	0 ... + 100 % 0 ... + 120 % ³ 1.00 ... 9.99	0.01
CO/CO ₂ ratio	berechnet	0 ... 0.01	0.0001

³ = When taking into account the calorific value gain

Order information

Accessory

Bluetooth printer	56 01 048
Paper for printer, packing unit 5 rolls	56 90 151

Sets

Dräger FG4500 set	56 03 120
Incl. Dräger FG4500, Bluetooth LE, USB-plug-in charger, USB cable, gas probe, consumable set, fastening kit, equipment case, software*	

*The PC software is available for download on www.draeger-msi.de

HEADQUARTERS

Dräger MSI GmbH
Rohrstraße 32
58093 Hagen, Germany

www.draeger-msi.de

SUBSIDIARIES

NORTHERN REGION

Dräger Safety AG & Co. KGaA
Albert-Schweitzer-Ring 22
22045 Hamburg, Germany
Tel. +49 40 668 67-0
Fax +49 40 668 67-150
vertrieb.nord@draeger.com

EASTERN REGION

Dräger Safety AG & Co. KGaA
An der Harth 10 B
04416 Markkleeberg, Germany
Tel. +49 341 35 0 31-0
Fax +49 341 35 0 31-161
vertrieb.ost@draeger.com

SOUTHERN REGION

Dräger Safety AG & Co. KGaA
Vor dem Lauch 9
70567 Stuttgart, Germany
Tel. +49 711 721 99-0
Fax +49 711 721 99-50
vertrieb.sued@draeger.com

WESTERN REGION

Dräger Safety AG & Co. KGaA
Europark Fichtenhain B 5
47807 Krefeld, Germany
Tel. +49 2151 37 35-0
Fax +49 2151 37 35-50
vertrieb.west@draeger.com

SERVICE

NORTHERN REGION

Dräger Safety AG & Co. KGaA
Albert-Schweitzer-Ring 22
22045 Hamburg, Germany
Tel. +49 40 668 67-161
Fax +49 40 668 67-155
service.nord@draeger.com

EASTERN REGION

Dräger Safety AG & Co. KGaA
An der Harth 10 B
04416 Markkleeberg, Germany
Tel. +49 341 35 0 31-164
Fax +49 341 35 0 31-166
service.ost@draeger.com

SOUTHERN REGION

Dräger Safety AG & Co. KGaA
Vor dem Lauch 9
70567 Stuttgart, Germany
Tel. +49 711 721 99-43
Fax +49 711 721 99-51
service.sued@draeger.com

WESTERN REGION

Dräger Safety AG & Co. KGaA
Europark Fichtenhain B 5
47807 Krefeld, Germany
Tel. +49 2151 37 35-0
Fax +49 2151 37 35-35
vertrieb.west@draeger.com

SUBSIDIARIES

AUSTRIA

Dräger Safety Austria GmbH
Wallackgasse 8
1230 Vienna, Austria
Tel. +43 1 609 36 02
Fax +43 1 699 62 42
office.safety@draeger.com

SWITZERLAND

Dräger Schweiz AG
Waldeggstrasse 30
3097 Liebefeld, Switzerland
Tel. +41 58 748 74 74
Fax +41 58 748 74 01
info.ch@draeger.com

CORPORATE HEAD OFFICE

Drägerwerk AG & Co. KGaA
Moisinger Allee 53-55
23558 Lübeck, Germany

www.draeger.com