WÖHLER

Operating Manual
Digital Manometer

EN

Wöhler DM 2000

Best.-Nr. 23861 – 2017-11-08

Content

1 General

1.1 Information about this operating manual

This operation manual allows you to work safely with the Wöhler DM 2000 Digital Manometer. Please keep this operating manual in a safe place for future reference.

The Wöhler DM 2000 Digital Manometer should be employed by professionals for its intended use only.

We accept no responsibility for any damage or loss resulting from any failure to observe this operating manual.

1.2 Symbols used in this operating manual

WARNING!
Not following this warning can cause injury or death.

NOTE!
Highlights tips and other useful information.

1.3 Proper use

The meter is suitable for the fine tuning of boilers, The draft measurement and the differential pressure measurement

Einstellungen des Gasdrucks an Gasfeuerstätten, zur Messung des Gebläsedifferenzdrucks ab 1 Pa/0,01 mbar sowie zur Messung des Schornsteinzugs.

1.4 Basic equipment

Meter	Scope of supply
Wöhler DM 2000	Digital Manometer with batteries
	Hose 1.5 m

1.5 Disposal

Do not dispose of electronic equipment along with household waste. Dispose of electronic equipment in accordance with valid environmental regulations.

Damaged rechargeable batteries are considered hazardous waste. Dispose of damaged or used rechargeable batteries at the collection points provided.

1.6 Manufacturer's address

Wöhler Technik GmbH
Wöhler-Platz 1
33181 Bad Wünnenberg, Germany
Tel.: +49 2953 73-100
Fax: +49 2953 73-250
E-Mail: info@woehler.de

2 Technical Data

Beschreibung	Angabe
Differential Pressure Range	± 2 bar
Accuracy	< 3 % from reading, in range ±200 Pa better than ± 6 Pa
Temperature (optional) Range	-20 °C up to +99 °C
Accuracy:	< 1 °C
Resolution:	0.1 °C
Unit	Depending on the version mbar or Pa
Power supply	2 batteries AA, 1,5 V
Storage temperature	-20 °C up to +60 °C
Working temperature	-5 °C up to +60 °C

3 Components

Opperator button :

- Press button to turn on
- Press during measurement to zero
- Press twice during measurement to print
- Hold button for 3 sec. to turn off

4 Flue Draft Test

Safety Warning!
You must be qualified to work on heat appliances and gas, oil or other fuel supplies. For further instructions contact your local authorities before you start the job.

The constant flow of flue gases at the correct rate of flow with the least possible variation is required for safe and efficient combustion. Insufficient flue draft will cause ignition difficulties and is likely to result in fume emission and potential health risk. Too much draft will make control of the fire difficult and may result in overheating. In this instance, fitting a draft stabiliser may be required. An appliance manufacturer will specify a range of flue draft conditions under which their appliance will operate.

Choosing the correct place for measuring

The correct place for measuring the chimney draft is close to the appliance and at least 2 x flue-pipe diameter above the spigot and 15 cm away from any draft stabiliser. Some appliances include purpose made flue draught test points for insertion of test equipment sampling probes. Where no purpose-made flue draught point is included a suitable point will need to be provided adjacent to the appliance outlet. In some instances, a draft measurement can be taken by temporarily removing a sweeping access cover and using a cone or plate with a hole in the centre to prevent secondary air entry and to enable the sampling probe to be inserted.

A flue draught reading should be taken before the appliance is lit to identify any potential problems which will result from down draught.

Procedure for Taking Flue Draft Readings

The typical procedure when using a Wohler mechanical draft gauge is as follows:

1. Visually inspect the draft gauge for signs of damage and/or defect.
2. Ignite a small amount of fuel in the appliance and leave to burn for 20 minutes.
3. Turn on the unit and allow the display to stabilise and settle to zero.
4. Connect the rubber hose to the negative connector on the unit.
5. Connect the stainless steel probe to the end of the rubber hose.
6. Insert metal sampling tube into test point preventing secondary air entry.
7. Wait approximately 30 seconds for stabilisation and then take a draught reading.

☞ *NOTE!*
Atmospheric or weather conditions may cause incorrect draft readings.

Depending upon the draft reading obtained, it may be necessary to adjust the appliance air control devices and/or the flue draft stabiliser (if fitted). Any adjustment should be made in accordance with the manufacturer's instructions and the draught reading should be retaken after each adjustment.

If acceptable draft conditions are not able to be achieved, the appliance should be taken out of service and where appropriate the HETAS Unsafe Situations Procedure should be followed whilst the fault is rectified. Refer to Unit HTU03K Section 8 for more details.

5 Temperature

The meter has an internal temperature sensor. An external temperature sensor can be connected to the bottom of the meter, see accessories.

☞ *NOTE!*
The temperature reading will not appear in the display but only on the printout.

6 Printing

The pressure and the temperature readings can be printed on the Wöhler TD 100 Thermoprinter, see accessories.

- Switch on the printer.
- Position the meter next to the printer, so that the IR ports of meter and printer are opposite to each other.
- Start printing with a doubleclick on the oprea-tion-button of the Wöhler DM 2000.

7 Accessories

Hose with draft probe 6 mm Ø, 200 mm long, cone 6 mm Ø and hose 1,5 m long	Art n° 4578
Pressure Measurement Set for Wöhler Digital Manometer	Art n° 56126
Combustion air temperature probe, 280 mm, with 1.7 m cable	Art n° 9611

8 Service