

Operating Manual Digital Manometer



Wöhler DM 2000

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1 General

1.1 Information about this operating manual 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



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,

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

1.4	Basic equipment	Meter	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.

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



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 purposemade 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 opreation-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 Warranty and Service

8.1	Warranty	Each Wöhler DM 2000 will be tested in all func- tions and will leave our factory only after extensive quality control testing.
		If used properly, the warranty period for the DM 2000 will be 12 month from the date of sale. Not covered by the warranty are the batteries and the costs for transport and package.
		Service by non authorized personnel or making modifications to the meter voids any warranty.
8.2	Service	We see SERVICE as a very important element in our business. That is why we are still available to you even after the guarantee period has expired.
		 An immediate repair will be carried out if you bring your meter to one of our approved ser- vice centers listed below.
		 You can obtain immediate help from our engineers by telephone.