

DB100 DM Fire Hydrant Flow Meter and Controller



The **DB100 DM fire hydrant flow meter** is a digital measuring device designed to perform hydraulic tests and facilitate the monitoring of fire hydrant performance. With a **maximum flow rate of 350 m³/h**, digital measurement of flow and pressure, and direct mounting on a private fire hydrant, it is particularly well-suited for professionals responsible for inspecting and maintaining outdoor fire protection equipment.

Compact and lightweight at just **5.5 kg**, the DB100 DM combines a reinforced construction, stainless steel components, and a rated battery life of **10 years**. Its digital display allows users to view key test data directly, thereby simplifying data collection in the field.

What is a fire hydrant tester used for?

Inspecting a fire hydrant requires measuring its hydraulic characteristics to obtain precise data on its operation. The **DB100 DM** specifically measures flow rate and pressure and displays relevant information during the test.

Its fully digital operation makes it easy to read measurements and minimizes the number of steps required in the field. At the end of the test, the operator is presented with a summary screen displaying several key values to simplify data collection.

Maximum flow rate of 350 m³/h

The **DB100 DM** measures flow rates up to **350 m³/h**. It uses an **industrial Woltmann-type** turbine made of stainless steel and ceramic to measure flow.

The documentation specifies an **accuracy of 99% of the flow rate at 60 m³/h**. The digital flow measurement offers a stated accuracy of 0.1 m³/h.

Digital pressure measurement

In addition to flow rate, the DB100 DM controller features a **digital pressure gauge with a resolution of 0.1 bar**. The maximum indicated pressure is **16 bar during operation**, while the pressure sensor is rated for 100 bar.

The specified accuracy reaches **99%** of the pressure at **16 bar**, providing precise information for operations.

Digital Display for Simplified Readings

The DB100 DM's digital display shows **flow rate, pressure, and cumulative volumes**. The device also displays the volume of water used during the test.

At the end of the test, a summary display presents the key data:

- **Flow rate at 1 bar**
- **Pressure at 60 m³/h**
- **Maximum flow rate during the test**
- **Static pressure at 0 m³/h**

This format makes it easier to read and record the results. The documentation also notes that you can use a **smartphone's camera mode** to easily save a screenshot of the test summary.

Direct Mounting on a Fire Hydrant

The DB100 DM is designed for **direct mounting on a private fire hydrant**. This configuration provides a compact unit positioned directly at the water source to be tested.

Internal stainless steel stabilizers and stainless steel feet contribute to the device's robustness. The inlet filter is also made of reinforced stainless steel to withstand the stresses encountered during field inspections.

Automatic operation and shutdown

The DB100 DM flowmeter controller features an **automatic start and stop** system. This design simplifies its use during inspection operations and helps preserve its battery life.

The device is rated for a **10-year battery life**. According to the technical documentation, this long battery life eliminates the need for frequent recharging or battery replacement.

IP68 Waterproof Display

The DB100 DM is equipped with an **IP68-rated waterproof digital display**. This level of protection is particularly valuable for a device intended for direct use on hydraulic equipment and in potentially challenging operating conditions.

Technical Specifications of the DB100 DM Flow Meter

- **Type:** Digital fire hydrant flow meter
- **Nominal diameter:** DN100
- **Installation:** Directly on a private fire hydrant
- **Maximum flow rate:** 350 m³/h
- **Flow accuracy:** 99% at 60 m³/h
- **Digital flow accuracy:** 0.1 m³/h

- **Flow measurement:** industrial Woltmann-type turbine, stainless steel + ceramic
- **Pressure gauge:** digital
- **Pressure gauge resolution:** 0.1 bar
- **Maximum operating pressure:** 16 bar
- **Pressure sensor:** up to 100 bar
- **Pressure accuracy:** 99% at 16 bar
- **Display:** cumulative flow and volume
- **Functions:** automatic start and stop
- **Battery life:** 10 years
- **Display protection:** IP68
- **Internal stabilizers:** stainless steel
- **Legs:** stainless steel, 6 mm thick
- **Inlet filter:** reinforced stainless steel
- **Dimensions:** 400 × 428 × 211 mm
- **Weight:** 5.5 kg
- **Color:** RAL 3026 Fluorescent Safety Red

A lightweight and easy-to-handle flow meter for field inspections

Weighing just **5.5 kg** and measuring **400 × 428 × 211 mm**, the DB100 DM is designed to remain easy to handle during inspection operations. Its compact size makes it easy to transport and set up directly on the fire hydrant.

Its various reinforcements, stainless steel components, and reinforced inlet filter help ensure the device can withstand the demanding conditions encountered during fire hydrant inspections.

Advantages of the DB100 DM Fire Hydrant Tester

- Digital measurement of flow rate and pressure
- Maximum flow rate up to 350 m³/h
- Direct mounting on a private fire hydrant
- Display of flow rate and cumulative volume
- Summary display of key values after testing
- Automatic start and stop
- IP68-rated waterproof display
- Claimed battery life of 10 years
- Lightweight at 5.5 kg
- Stainless steel stabilizers and feet
- Reinforced stainless steel inlet filter
- Designed for field inspections

Which professionals should use the DB100 DM?

The **DB100 DM fire hydrant flow meter** is designed for professionals who perform hydraulic tests and measurements on fire hydrants: companies specializing in fire equipment inspection, technical services, industrial site operators, and professionals responsible for verifying hydraulic fire protection systems.

Its ability to combine flow, pressure, and volume measurements within a single compact digital device simplifies inspection procedures and the collection of data needed to compile reports.

MMF, a specialist in fire safety equipment

MMF offers fire safety professionals a range of equipment designed for **inspecting fire hydrants and hydraulic systems**. The DB100 DM meets the needs of technicians looking for a compact, rugged, and easily portable digital flowmeter to take measurements directly in the field.