

SAFETY GUIDE

USAGE OF A LHM222 VERTICAL HYDRANT FLOW METER

HEALTH & SAFETY!

Before using the LHM222 Vertical Hydrant Flowmeter, it is crucial to adhere to the following safety protocols to ensure safe and effective operation

Manual Handling Regulations: follow all applicable Manual Handling Regulations to prevent injury. Use the correct lifting techniques and seek assistance for heavy components.

Visual Inspection: thoroughly examine the flow meter and all associated components for any loose parts, damage, or signs of wear.



CAUTION: to prevent serious injury, do not disconnect or rotate the standpipe flow meter when system is pressurised.

1 Standpipe and accessories check

- **Rubber seals:** ensure all rubber seals are visible, clean, and free of debris.
- **Turbidity sensor:** verify that the turbidity sensor is clean and that its rubbers are correctly fitted according to the manufacturer's instructions.
- **Pressure transducer:** confirm that the pressure transducer is correctly installed.
- **Battery check:** ensure that the standpipe battery (LHM222) are fully charged.

2 Installing the standpipe: preliminary checks

- **Hydrant inspection:** verify that the hydrant is free from dirt, debris, and obstructions before installation.
- **Hydrant valve:** ensure the hydrant valve is fully closed.

3 Standpipe installation

- **Base fitting:** attach the standpipe base to the hydrant. If a ¼ turn valve is fitted, ensure it is closed.
- **Standpipe placement:** securely locate and latch the standpipe to the top of the base section.
- **Gate valve connection:** connect the gate valve to the outlet of the standpipe, ensuring it is opened slightly to purge the system of air.
- **Hose connection:** attach a hose longer than five meters to the gate valve outlet and securely anchor the hose outlet.
- **Dechlorination unit:** install a dechlorination unit onto the hose outlet if necessary.

4 Sensor and transducer setup

- **Turbidity sensor:** fit the turbidity sensor to the standpipe along with a 2-meter blue 6mm hose.
Ensure the hose is free of kinks and securely attached.
Connect the sensor plug to the socket on the back of the control box.
Ensure the plug is oriented correctly and secure it by turning the outer ring.
- **Pressure transducer:** connect the pressure transducer to the pressure connector on the standpipe.
Ensure a firm and secure connection.

5 Activating the System

- **Flushnet display:** turn on the Flushnet display using the button at the bottom of the unit.
Activate the flow display screen by covering it with your hand temporarily. In low light conditions, use a light source (phone/torch) to activate the display.

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USAGE OF A LHM200 VERTICAL HYDRANT FLOW METER (CONTINUED)

6 Opening the hydrant valve

- **Pressurising the standpipe:** slowly open the hydrant valve with the valve key until the standpipe is fully pressurised.
Inspect for any leaks.
Fully open the hydrant valve.
- **Flow rate adjustment:** slowly open the control gate valve to achieve the desired flow rate.

7 Safely closing and disconnecting the flow meter

- **Closing procedure:** gradually close the control gate valve once the flushing process is complete.
Fully close the hydrant valve using the valve key.
- **Disconnecting components:** detach the hose and dechlorination unit if fitted.
Reopen the control gate valve slowly to confirm that water is no longer flowing, which ensures the hydrant valve is fully closed. If water continues to flow, verify that the main valve is shut.
If present, open the ¼ turn valve on the standpipe base to release any remaining pressure.

- **Flushnet display:** turn off the Flushnet display.
- **Disassembly:** disconnect the control gate valve.
Remove the turbidity outlet pipe and drain any remaining water.
Detach the turbidity sensor, drain it, and replace the plug with the dust cap supplied.
Clean and dry both sides of the turbidity sensor with a soft cloth and reassemble it, ensuring the rubbers are correctly fitted.
- **Standpipe removal:** remove the standpipe from the base, which may require two people.
Unscrew the standpipe base and close the ¼ turn valve if applicable.

8 Storing Equipment

- **Post-use cleaning:** wipe down and dry the standpipe and any additional equipment after use to prevent corrosion.
Clean the electrodes inside the standpipe after each flush to maintain accurate readings.
- **Battery maintenance:** regularly charge the standpipe batteries when not in use to ensure they remain fully functional.

By following these detailed steps and precautions, you can ensure the safe and effective use of the LHM200 Vertical Hydrant Flowmeter while minimising the risk of injury and maintaining the equipment in optimum condition.

AVAILABLE ACCESSORIES



Dechlorination Storz
– LDCU Storz



45 Degree instantaneous male
to female – LHM45DPF



45 Degree instantaneous
male to female – LHM45STF



Control gate valve – LHM030



Layflat hose – LHM007



Extension pipe – LHMS500



Extension pipe – LHMS1000

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