

The **DEETER** Group®

Low Volume Liquid Dispenser



The Liquid Volume Dispenser is designed to deliver a measured volume of liquid at the press of a button. In normal use, the operator selects a volume, presses a button and the Dispenser delivers the required volume without further operator intervention.

The volume is easy to select and is retained in non-volatile memory for repeat operation. Volumes between 0.025 litres and 10 litres can be selected in increments of 0.001 litres.

The Dispenser will accurately measure volumes over a flow rate range of between 0.2 litres/minute and 2.5 litres/minute and will automatically compensate for the effects of varying flow-rates and changes in liquid temperature. A calibration menu allows fine adjustments to the compensation.

The Liquid Volume Dispenser has two John Guest Speedfit® push-fit connectors for fluid in and out. These take a tube with outside diameter of 8mm. Wetted surfaces are nylon, PTFE, Buna and acetal, making the Liquid Volume Dispenser suitable for a wide range of fluids.

Operator controls consist of a three-button keypad and a liquid crystal display. The display shows the selected volume and progress during dispensing. A number of additional features are available through the keypad, including pause and restart during dispensing, cancelling dispensing, and manual 'top-up' control.

All electrical equipment should be installed by a qualified electrician.

DEETER ELECTRONICS INC

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The Dispenser has a serial communication option to enable automated control and monitoring by computer (software supplied). Communication is via USB 'A to B' cable (not supplied).

The Liquid Volume Dispenser is powered by a low-voltage supply, making it safe to use in damp environments or if liquid is spilt. A 12VDC mains socket adapter is supplied with each Dispenser.

Specification

Dimensions	175mm x 125mm x 78mm	Power supply	10-15VDC @ 500mA 12VDC mains socket adapter supplied
Dispense Volume	0.025 L – 10 L in 0.001 L steps	Flow Rate Range	0.2 – 2.5 litres per minute
Minimum inlet pressure	0.2 Bar	Maximum inlet pressure	at 20 °C up to 10 Bar at 65 °C up to 4 Bar
Dispense Accuracy⁽¹⁾	±1% at constant temperature and flow rate	Fluid Temperature Range⁽¹⁾	0°C to + 65°C
Fluid Connections	8mm OD, push-fit	Suitable Tube Materials⁽²⁾	Polyethylene, nylon, polyurethane, brass, copper, mild steel
USB connection	USB to serial connection (Cable not Supplied)	Software/CD	User Guide Software and Datasheet

⁽¹⁾ Water

⁽²⁾ For soft or thin-walled tubing, tube inserts should be used.

Ordering Information

Description	Ordering Code
Liquid Volume Dispenser	DE012-0184

Deeter Electronics Ltd. follows a policy of continual development of its products and reserves the right to change specifications and / or features without notice

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