

Automatic Liquid Dispenser



The Automatic Liquid Dispenser incorporates a pump and a flow-meter to deliver a measured volume of liquid. Delivery can be initiated at the press of a button, by external input signal, or automatically by means of an internal timer. The timer can be selected to start dispensing at regular intervals or start dispensing at set times of the day, on a daily or a weekly basis.

The volume is easy to select and is retained in non-volatile memory for repeat operation. Volumes between 0.20 litres and 100.00 litres can be selected in increments of 0.01 litres.

The Dispenser will accurately measure volumes over a flow rate range of between 0.05 litres/minute and 5 litres/minute. A simple calibration method enables the dispenser to repeatedly deliver accurately measured volumes and also allows for fine adjustment of the delivered volume.

The Automatic Liquid Dispenser has two John Guest Speedfit® push-fit connectors for fluid in and out. The fittings take a tube with an outside diameter of 8mm and can be used with polyethylene, nylon, polyurethane, brass, copper, or mild steel tubing. (Tube inserts should be used for soft or thin-walled tubing).

The front-panel display shows the selected volume and progress during dispensing. It also enables various option menus to be viewed and provides warning messages if error conditions are detected.

The Dispenser has a serial communication option to enable automated control and monitoring by computer, this requires a USB A to B cable.

The 12VDC mains adapter supplied with the dispenser plugs into the socket labelled on the rear panel. Low voltage operation makes the dispenser safe to use in damp environments or where liquid can be spilt.

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Specification

Dimensions	265mm x 120mm x 295mm (wxhxd, excludes plumbing and wiring connections)	Power supply	10-15VDC @ 3A (12VDC mains socket adapter supplied)
Fuse	4A, anti-surge, 5x20mm cartridge	Fluid Connections⁽¹⁾	8mm OD, John Guest Speedfit®
Serial Communications connector	USB Type B socket	Remote Switch connector	Locking 3-pin DIN plug (mating socket supplied)
Dispensed Volume Range	0.20 – 100 litres in 0.01 litre steps	Nominal flow rate⁽²⁾	3.2 litres per minute
Flow rate range⁽³⁾	.05 – 5.0 litres per minute	Dispense Accuracy⁽⁴⁾	±1%
Fluid Temperature Range	0°C to +43°C	Filter	Stainless Steel, 60 Mesh (250 microns)
Wetted Materials	acetal (polyformaldehyde) polyether polyurethane glass-filled polypropylene glass-filled polyamide (Nylon) polyamide-12 (Nylon-12) nitrile rubber (NBR) EPDM rubber stainless steel	Pump Sound Level	65 decibels (typical)

(1) Suitable tube materials include: polyethylene, nylon, polyurethane, brass, copper, mild steel.
For soft or thin-walled tubing, tube inserts should be used.

(2) Typical flow rate with 12V supply, clear filter, minimal external tube restrictions and minimal
height differential between outlet of fluid and pump.

(3) For accurate dispenses

(4) Water at constant temperature and flow rate

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Ordering Information

Description	Ordering Code
Automatic Liquid Dispenser	DE012-0234

All electrical equipment should be installed by a qualified/certified electrician.

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