



One Henkel Way
Rocky Hill, CT 06067-3910
Telephone: (860) 571-5100
FAX: (860) 571-5465

Product Description Sheet Loctite® Digital Single Function Dispense Controller

Part # 97101
North American Engineering Center

PRODUCT DESCRIPTION

The Loctite® Digital Single Function Dispense Controller is used in conjunction with a Loctite® Dispense Valve and a Product Reservoir to make up a pressure / time dispensing system. Various dispense valves are available depending on the process requirements. The Loctite® Digital Single Function Dispense Controller is connected to an external pneumatic supply. It controls the pneumatic opening and closing of a dispense valve according to the selected dispensing time and also sends unregulated air pressure to a reservoir. The start signal for the dispense cycle can be actuated by a foot switch (included) or a proximity switch (supplied by customer). A reservoir with optional 24 VDC low-level sensor capabilities will activate an alarm condition that can also be communicated to a remote device such as a customer-supplied PLC. The amount of product that is dispensed is controlled by three main factors:

- Amount of pressure applied to the reservoir.
- Length of time the dispensing valve remains open.
- Dispensing needle size.

PRODUCT FEATURES

- Independent Controller:
 - Allows choice of product reservoirs.
 - Provides for flexibility for future upgrades.
- Low Level Sensor Interface: Accepts 24 VDC low level sensor input signal from Loctite's Bond-A-Matic 3000 reservoirs.
- Low Level alarm condition is indicated by an audible alarm and flashing digital display.
- Low Level Output: Communicates a low level condition to a remote device such as a PLC.
- Cycle-complete output signal: Communicates the dispensing cycle is finished and that the reservoir is not empty. Sends a signal to a higher-ranking controller or a warning light.

Technical Data

- Power supply: 90 – 260 V AC; 47 – 63 Hz
- Power consumption: Approx. 25 W
- Power protection: Glass tube wire fuse, 2A, semi time-lag
- Internal control voltage 24 V DC
- Pneumatic supply: Min. 5 bar (70 PSI), max. 10 bar (145 PSI)
- Pneumatic connection: 6 mm diameter tubing (supplied).
- NOTE: ¼ in. tubing is not suitable!
- Compressed air quality: Filtered 10 µm, oil-free, non-condensing
 - If the required quality is not achieved, install a LOCTITE® filter regulator 985397.
- Operating Temperature +10 °C to +40 °C (+50 °F to +104 °F)
- Dimensions W x H x D: 350 x 335 x 230 mm (13.8 x 13.2 x 9.1 inch)
- Weight Approx. 2.1 kg (4.6 lbs)

Items Included:

- Digital Single Function Dispense Controller
- Instruction Manual
- AC Power Cord
- Terminating Plug for low level sensor input
- Foot Switch – P/N 97201
- Pneumatic airline tubing; 6 mm x 1 foot
- Adapter for 6 mm airline tubing to 5/32" airline fitting.

Loctite® Accessories (not included): Bond-A-Matic 3000 reservoirs – P/N 982720 (0-15 psi) or 982723 (0-100 psi)



NOT FOR PRODUCT SPECIFICATIONS

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