

# HIGH PRECISION DISPENSERS

## Ultimus™ I, II and III



### Features and Benefits

- All-digital, multi-function display
- 16 memory settings
- 4-decimal time setting
- Multilingual display
- Operator security lockout
- High-speed solenoid for highly accurate deposits
- Universal power supply

### Specifications

**Cabinet size:** 14.3W x 18.1H x 17.3D cm  
(5.63"W x 7.12"H x 6.82"D)

**Weight:** 2.3 kg (5.0 lb)

**Cycle rate:** Exceeds 600 cycles per minute

**Time range:** 0.0001 to 999.9999 seconds

#### Input AC

(to power supply): Universal Multi Voltage  
100-240 VAC, 50/60Hz

#### Output DC

(from power supply): 24 VDC, 1.04 Amp maximum

#### End-of-cycle feedback circuits:

5 to 24 VDC, 100 mA maximum

**Initiate circuits:** Foot pedal, finger switch or 5 to 24 VDC signal

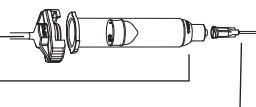
**Approvals:** CE, CSA, RoHS, WEEE & China RoHS Compliant

**Warranty:** 10 year, no-fault

Featuring simultaneous digital display of all dispenser settings and time adjustment as fine as .0001 seconds, Ultimus dispensers bring exceptional process control to medical device, electronics and other critical dispensing processes.

Each dispenser kit includes:

- (1) adapter assembly
- (2) boxes of syringe barrels/pistons
- (2) boxes of dispensing tips
- (1) box of tip caps
- omnidirectional foot pedal
- cabinet-mounted barrel holder



**7017041 (2400) Ultimus I:** Features a 0-100 psi (0-7 bar) pressure regulator that handles all fluids.

**7002003 (2415) Ultimus II:** Has a 0-15 psi (0-1 bar) regulator that provides greater control when dispensing thin fluids.

**7017068 (2405) Ultimus III:** Uses a 0-5 psi (0-0.35 bar) regulator for dispensing micro-deposits of solvents and other very thin fluids.

# HIGH PRECISION DISPENSERS

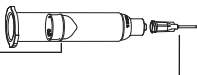
## Ultimus IV Series



Positive displacement dispensers are ideal for applying uniform amounts of 2-part epoxies and other fluids that change viscosity over time. Compressed air is not required—instead, these electrically operated units use stepper motors and patented technology to advance and retract a piston inside the syringe barrel. They will produce accurate, repeatable deposits, regardless of changes in fluid viscosity or temperature.

Each dispenser kit includes:

- (2) boxes of syringe barrels/red pistons
- (2) boxes of dispensing tips
- (2) boxes of tip caps
- foot pedal
- cabinet-mounted barrel holder



### Features and Benefits

- Highly repeatable, precise fluid control
- Non-pneumatic, shop air not required
- All-electric, multi-function display
- Programmable pullback stops drooling
- 100 user-defined memory cells

### Specifications

**Cabinet size:** 18.4W x 8.1H x 32.3D cm  
(7.25"W x 3.18"H x 12.73"D)

**Weight:** 3.7 kg (8.2 lb)

**Cable assembly:** 1.8 m (6 ft)

**AC input voltage:** 100-240 VAC

**AC input frequency:** 50/60Hz

**Initiate circuits:** 5 to 24 VDC, 100 mA maximum

**Initiate circuits:** Foot pedal, cycle start button  
or 5 to 24 VDC signal

**Approvals:** CE, RoHS, WEEE & China RoHS Compliant

**Warranty:** 2 years, no fault

**7017178 (2800-3):** For 3cc syringe barrels

**7017181 (2800-5):** For 5cc syringe barrels

**7017177 (2800-10):** For 10cc syringe barrels

**7017179 (2800-30):** For 30cc syringe barrels

### ULTIMUS MODELS AND FEATURES

FEATURES	Dispense Time Display	Air Pressure Display	Adjustability			Modes of Operation				Time Range	Air Pressure Range			Input/Output	Universal Voltage	Warranty (Years)	
			Time	Air	Vac	Steady	Timed	Volumetric	Teach		0-100 psi (0-7 bar)	0-15 psi (0-1 bar)	0-5 psi (0-0.35 bar)			2	10
<b>MODELS</b>	Digital	Digital	Time	Air	Vac	Steady	Timed	Volumetric	Teach	0-999.9 sec.	0-100 psi (0-7 bar)	0-15 psi (0-1 bar)	0-5 psi (0-0.35 bar)	5-24 VDC Signal	100-240 VAC 50/60Hz	2	10
Ultimus I	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			✓	✓		✓
Ultimus II	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓		✓
Ultimus III	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓		✓
Ultimus IV						✓		✓						✓	✓	✓	✓

# HIGH PRECISION DISPENSERS

## Dispenser Accessories



PART #	ACCESSORY	DESCRIPTION	ULTIMUS I-III	ULTIMUS IV
7017105	Flex arm syringe barrel holder	Mounts to dispenser cabinet; can be adjusted to multiple positions	✓	
7017113	Stiff arm syringe barrel holder	Mounts to dispenser cabinet and holds barrel in fixed position	✓	
7017131	Finger switch	Ergonomic hand grip with built-in touch sensor and high beam penlight	✓	
7017089	Finger switch	Finger switch Low voltage, push button finger switch controls dispense cycle	✓	
7017288	Syringe barrel production stand	Provides full-barrel swivel, horizontal and vertical adjustment. Accepts all EFD barrels.		✓
7021053	Syringe barrel production stand		✓	
7017122	Workstation lamp	Mounts on flex arm and provides targeted lighting on work area	✓	
7017119	Safety shield	Provides splash protection	✓	✓
		Accessory mount (1 required for use with Ultimus IV)		✓
7017138	Production extension shelf	Provides flat work surface for other tools or dispenser stacking	✓	
7017135	Magnifying lens	1.7x magnification mounts on flex arm	✓	
		Accessory mount (required for use with Ultimus IV)		✓
7017143	8-pin I/O connector assembly	Allows easy connection to dispenser for external control	✓	✓
7017049	Cleanroom filter muffler	Filters output air to meet Fed 209-B (0.5 micron particulates)	✓	
7017167	Vacuum pickup pen system	Vacuum generator and pen system for picking and placing small parts	✓	

PART #	ACCESSORY	DESCRIPTION
7013229	Dispensing tip sampler kit	Includes a selection of various types and styles of dispensing tips, pistons, tip and end caps—158 pieces
7024803	VacTweezer™ pickup tool	Useful, low cost pick-and-place tool with static die treated kit. Includes (7) tips, (5) pad sizes
7002002	Five-micron filter regulator	Provides proper air filtering for all dispensers. Order if you do not have a clean, dry, filtered factory air supply.
7016548	Five-micron filter regulator with coalescing filter	Five-micron filter regulator with coalescing filter
7021515	Coalescing filter assembly only	Recommended for systems dispensing cyanoacrylates
7016540	Filter element replacement kit	Removes liquid aerosols from air supply

# HIGH PRECISION DISPENSERS

Ultimus™



For Nordson EFD sales and service in over 30 countries, contact Nordson EFD or go to [www.nordsonefd.com](http://www.nordsonefd.com)

East Providence, RI USA  
USA & Canada: 800.556.3484; +1.401.431.7000  
[info@nordsonefd.com](mailto:info@nordsonefd.com)

Dunstable, Bedfordshire, UK  
0800 585733; +44 (0) 1582 666334  
Ireland 00800 8272 9444  
[europe@nordsonefd.com](mailto:europe@nordsonefd.com)

China: +86 (21) 3866 9006  
[china@nordsonefd.com](mailto:china@nordsonefd.com)

Singapore: +65 6796 9522  
[sin-mal@nordsonefd.com](mailto:sin-mal@nordsonefd.com)

The Wave Design is a trademark of Nordson Corporation.  
© 2012 Nordson Corporation v031912

**Nordson**  
EFD