

# Encore<sup>®</sup>

## Modular Gun Control System

All digital, easy-to-use, modular gun control system – for reliable and repeatable performance in automatic powder painting operations.

The new Encore gun control system is an all digital, easy to operate, energy efficient and modular automatic gun control system that provides precision pneumatic and electrostatic operating parameters for repeatable and reliable performance of automatic powder coating operations.

The modular cabinet style design accommodates up to eight automatic gun controllers for easy operation of both reciprocators and in/out positioners.



## Features and Benefits

- **All digital operator interface** – for easy operation of precision gun parameters
- **Energy saving digital pneumatics** – for repeatable operation at reduced air supply pressure
- **Easy to operate electrostatic control** – with convenient Select Charge modes and AFC control
- **Simple master control** – with convenient “trigger all” button for set-up and testing
- **Modular design** – for easy upgrade from a 4- or 6-gun system to an 8-gun system
- **Available in a dual controller configuration** – for 2-gun systems
- **Also available in a single controller configuration** – for single gun and robot applications
- **Optional vortex cooling** – for installations with high ambient temperatures
- **Compatible with Encore bar mount and tube mount automatic spray guns.**

Customizable electrostatics and configurable flow modes for precise application control.



## Digital energy saving pneumatics – for precise, repeatable and economic performance

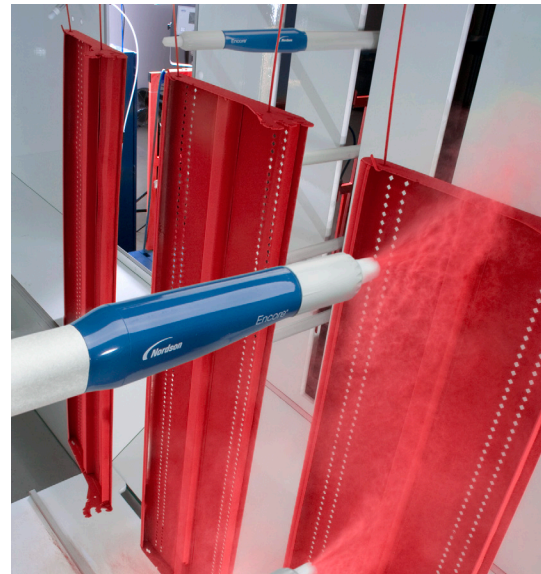
Encore's easy to operate pneumatic controls provide precise, repeatable and economic operation – in both Classic Flow and Smart Flow modes. Classic Flow mode allows operators to set flow and atomizing air independently. In Smart Flow mode – atomizing and flow air are adjusted automatically based on the flow air percent and total flow settings. Encore's digital pneumatic controls allow for higher precision and repeatability than standard pressure regulators and gages. Encore pneumatics are also more economical and help save money – allowing for the same repeatability and precision – at incoming air pressure as low as 60 psi.

## Easy to operate electrostatics with Select Charge and AFC – for virtually infinite configurability of both kV and current

Select Charge coating modes utilize three optimized factory preset electrostatic parameters for recoating parts, metallic powders, and deep recesses. A fourth or “custom” mode enables independent setting of kV and current limit. Also available as standard with Encore is Nordson's patented AFC (Automatic Feedback Current) control, allowing operators to set gun current at a level that will provide optimal powder charge and field strength for each part to be coated.

## Compact modular design – for optimum flexibility and configuration of gun control and master control

The Encore modular gun control system is available in 4-, 6- or 8-gun controller configurations with master control and rear dress out cover panel. The master control panel provides main power and air distribution, keyed lockout protection, and gun triggering via a PLC or other triggering device.



## Both dual and single gun controllers – for dual and single gun systems

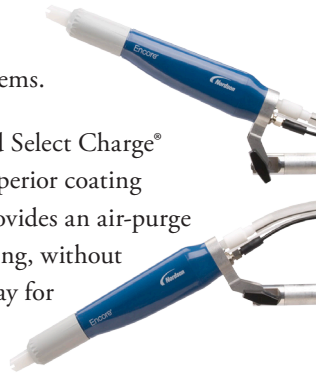
A stand alone dual gun controller can be used for 2-gun applications. An optional adjustable wall mounting bracket is available for ease of installation and operation. A single gun controller is also available for single gun and robot applications.



## Encore Automatic Powder Spray Guns

Designed for use with the Encore modular gun control system, the Encore automatic gun is one of the lightest and most compact powder application tools in the industry. In addition, at 100 kV, it provides the highest transfer efficiency available today for venturi-based coating systems.

With the Encore automatic gun and Select Charge® technology, finishers can achieve superior coating coverage and efficiency. The gun provides an air-purge cleanable design for fast, easy cleaning, without gun disassembly, a requirement today for quick color change powder coating applications.



The Encore automatic gun is available in both tube mount and bar mount configurations to meet various application needs. Tube mount versions accommodate varying powder spray booth widths for coating very small to very large products. A bar mount version, provides a more compact and lightweight option. The bar mount version is ideal for use on a robot and in applications that do not require ultra-fast color-change.



## Encore Automatic Controller Specifications

|                                     | 1-Gun Auto   | 2-Gun Auto  | 4-Gun Auto  | 6-Gun Auto         | 8-Gun Auto         |
|-------------------------------------|--|---|---|--------------------|--------------------|
| <b>Dimensions:</b>                  |  |   |   |                    |                    |
| Height                              | 198 mm (7.80 in)   | 221.5 mm (8.72 in)  | 1835 mm (72.24 in)  |                    |                    |
| Width                               | 212 mm (8.35 in)   | 442 mm (17.40 in)   | 546 mm (21.50 in)   |                    |                    |
| Depth                               | 312 mm (12.26 in)  | 368 mm (14.49 in)   | 598 mm (23.54 in)   |                    |                    |
| <b>Weight</b>                       |  |   |   |                    |                    |
| Controller (kg)                     | 6.2 kg (13.6 lbs)  | 11.7 kg (25.8 lbs)  | 118.8 kg (262 lbs)  | 120.2 kg (265 lbs) | 121.6 kg (268 lbs) |
| Axis Cntr adder (kg)                | -NA-   | -NA-  | 4.5 kg (10 lbs)   |                    |                    |
| <b>Input air pressure</b>           |  |   |   |                    |                    |
| Min                                 | 58 PSI (4.0 bar)   |   |   |                    |                    |
| Max                                 | 110 PSI (7.6 bar)  |   |   |                    |                    |
| Supply air hose                     | 10 mm Tube   |   | 16 mm Tube  |                    |                    |
| Max output per channel (flow, atom) | 5 scfm (8.5 m3/hr) @ 100 psi (6.9 bar) input pressure  |   |   |                    |                    |
| Gun air (electrode air wash)        | 0.25 scfm (0.42 m3/hr) @ 100 psi (6.9 bar) input pressure  |   |   |                    |                    |
| <b>Air Consumption</b>              |  |   |   |                    |                    |
| per gun (typ)                       | 3 scfm (5.1 m3/hr)   |   |   |                    |                    |
| <b>Electrical:</b>                  |  |   |   |                    |                    |
| Input                               | 100-240 VAC,<br>1 phase, 50/60 Hz,<br>2.5 Amp, 100 VA Max  | 100-250 VAC,<br>1 phase, 50/60 Hz,<br>2.5 Amp, 125 VA Max | 100-250 VAC,<br>1 phase, 50/60 Hz,<br>6.3 Amp, 275 VA Max |                    |                    |
| Output                              | -NA-   |   |   |                    |                    |
| <b>Filtration</b>                   | Compressed air must be clean and dry. Use regenerative desiccant or refrigerated air dryer capable of producing a 10 deg C (50 deg F) or lower dew point at 100 psi (7 bar) and a filtering system with prefilters and coalescent type filters capable of removing oil, water and dirt in the submicron range.<br>Max oil vapor: 0.1 ppm, Max water vapor: 0.48 grains/ft <sup>3</sup> < 5-micron particulates |   |   |                    |                    |

## Standing Behind You...Every Step of the Way

Nordson has earned a reputation for its commitment to the success of our customers. From start to finish, Nordson customers are considered partners in evaluating the best approach to meet challenging application requirements. We will be there from systems engineering and development through installation and start-up. After, our worldwide service and support team will remain with you – 24/7.

[www.nordson.com/powder](http://www.nordson.com/powder)

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