

Pattern Controls

Pattern Controls

The easy-to-use Eclipse series pattern controls deliver flexibility and precise adhesive placement for packaging and product assembly applications. By using just the panel keys, operators can run, change and monitor system operations and make real-time adjustments to adhesive patterns, maximizing operational efficiencies and productivity. Both the EPC-30 and EPC-15 accommodate random-size cases automatically and generate solid and stitch patterns reducing adhesive consumption.

EPC-30 (Replaces PC44 and PC44R Pattern Controller)

- Distance-based program for constant or variable line speeds (300m/min or 983 ft/min); bead placement is ± 1 millisecond
- Autoscaling capability automatically calculates encoder setting
- Memory capability up to 50 separate patterns
- Four independent gun outputs; 24 beads per output
- Handles up to four consecutive trigger events for flexibility in trigger location and product spacing
- Microsoft Windows[®]-based PC interface allows graphic programming of the pattern controller from an industrial PC or notebook



EPC-15 (Replaces PC40 Pattern Controller)

- Time-based program for constant line speeds (150m/min or 500 ft/min); bead placement is ± 1 millisecond
- Autoscaling capability automatically calculates line speed
- Memory capability up to 25 separate patterns
- Four independent gun outputs; 8 beads per output
- Handles up to four consecutive trigger events for flexibility in trigger locations and product spacing



EPC-30 and EPC-15 Controllers

EPC-30 and EPC-15 Modules

EPC 30 – Control Modules

| Part Number | Description |
|-------------|---|
| 772000 | EPC-30 without Operator panel or I/O option |
| 772001 | EPC-30 without Operator Panel (includes I/O option) |
| 772002 | EPC-30 Remote Operator Panel |
| 772003 | EPC-30 with Operator Panel |
| 772004 | EPC-30 with Operator Panel and I/O option |

EP 15 – Control Module

| Part Number | Description |
|-------------|---------------------------|
| 342315 | EPC-15 Pattern Controller |

EPC-30 and EPC-15 Accessories

EPC-30 and EPC 15 – Power Supplies

| Part Number | Description |
|-------------|---|
| 772061 | EPS-20, External Power Supply Unit for EPC-30, converts 85-264 VAC, 47/63 Hz line voltage to 24 VDC |
| 131739 | PS-40 Power Supply, converts 100-240 VAC, 50/60 Hz line voltage to 24 VDC for the control module |

EPC 30 and EPC 15 – Photosensors

| Part Number | Description |
|-------------|---|
| 131476 | Diffuse reflective photosensor with LED modulated beam; replaces tubular or bracket mount sensors |
| 131474 | Retroreflective photosensor with LED modulated beam; includes reflector; replaces tubular or bracket mount sensors |
| 131475 | Polarized retroreflective photosensor to use on shiny surfaces; includes reflector; replaces tubular or bracket mount sensors |
| 145974 | Lens kit; provides retroreflective capability |
| 145278 | Bifurcated fiber-optic cable, 3 ft., 1/8 in. dia., stainless steel fittings |
| 145279 | Replacement cover for sensor (part 131476); provides retro-reflective capability for fiber-optic conversion |

Pattern Controls

EPC-30 Controller Accessories

EPC 30 – Encoders and Cables

| Part Number | Description |
|-------------|--|
| 772050 | Encoder 12 volt differential line driver, 500 pulses/revolution, metric flange, M3 screw holes and 10 mm shaft |
| 772051 | Encoder 12 volt differential line driver, 500 pulses/revolution, U.S. standard flange, .220 in. screw taps and 3/8 in. shaft. Use water tight cable part number 772053 for water wash conditions |
| 772052 | Encoder cable, water-tight cable assembly with MS type connector, 30 ft |
| 772053 | Encoder cable, water-tight cable assembly with MS type connector, 30 ft, for use with water wash encoder, part number 772051 |
| 311454 | Friction wheel, 500 mm circumference, 10 mm diameter center hole |
| 296144 | Friction wheel, 500 mm circumference, 3/8 in. diameter center hole |

EPC 30 – Service Kits

| Part Number | Description |
|-------------|---|
| 772025 | Fuse kit makes all fuses used in the unit available in one kit so any fuse can be replaced ^(A) |
| 772032 | Main control board kit provides the main control board, the dc-converter board, and all connecting cables already assembled and installed on the unit's mounting plate |
| 772031 | DC-converter board kit supplies the dc-converter board, the 4-pin and 20-pin connectors, and the mounting hardware in a single kit |
| 772021 | Operator panel kit provides the operator panel, the attached boards, the serial port cable, and the panel enclosure in a single assembly. This kit is for units with the integral operator panel. |
| 772023 | Quick-disconnect kit makes all quick-disconnect terminal blocks available in one kit ^(B) |
| 772030 | I/O board kit replaces an I/O board or to add the I/O-board option in the field. |
| 772072 | Network communication cable for connecting the remote panel and unit, 30 ft (RJ-45/RJ-45). |
| 1044307 | PatternView®, PC Windows® software program for remote programming of Eclipse pattern controller ^(C) . |

^(A) This kit includes a fuse for the optional I/O board. If your pattern control does not include this option, you will not need the 1-amp fuse in the kit.

^(B) This kit includes the quick-disconnects used on the optional I/O board. If your pattern control does not include this option, you will not need these two parts.

^(C) Only RS-232 serial port connection, not USB. Compatible with PC Windows 95/98, NT and XP software.

EPC-30 – General Accessories – Run-up Transducer

| Part Number | Description |
|-------------|--|
| 772033 | Transducer; regulates air pressure to piston pump units for runup control; requires clean, dry, oil-free air. |
| 154890 | Transducer; (IP66 water wash) regulates air pressure to piston pump units for run-up control; requires clean, dry, oil-free air. |
| 101293 | Pneumatic regulator/gauge assembly, maximum 621 kPa (90 psi); use with run-up transducer for run up of 14:1 piston pump. |
| 901527 | Pneumatic regulator/gauge assembly, maximum 483 kPa (70 psi); use with run-up transducer for run up of 21:1 piston pump |
| 901515 | Air filter, filters compressed air to run-up. |

LA 404 Pattern Control System

Pattern control system delivers easy installation and programming with application flexibility

Description

The distance-based LA 404 pattern control offers application flexibility and easy operation. With up to four channel capability and a choice of several different bead types, the control fits a broad range of high-end packaging or folding carton, envelope, and bag and sack manufacturing requirements.

In addition to quick connection cabling, the integrated gun driver board and tip sealing activators simplify installation.

The multi-language, menu-driver operator interface with scrollable LCD display simplifies programming. A 50-program memory delivers quick, easy changeovers.



LA-404

Four independent triggers allow broad pattern flexibility. An integrated driver controls up to eight cold glue electric guns or up to ten pneumatic guns.

The LA 404 control provides a number of bead choices including dot, stitch or modulated patterns. With four bead events per channel, the system delivers the flexibility to achieve a wide variety of gluing patterns.

LA 404 Part Numbers

| Part Number | Description |
|-------------|--|
| 1039520 | LA 404 Pattern Control System |
| 738652 | Cable, Encoder link, G-Site to LA404, 20 ft. |
| 1042100 | Remote Input Cable |

Pattern Controls

PC50 Series Pattern Controls

Programmable PC50 Series Pattern Controls manage adhesive placement in high-speed, complex applications.

Advanced distance-based microprocessor technology delivers precise patterns independent of or interfaced to PLCs.



PC50 Pattern Control Assembly

| Part Number | Description |
|-------------|---|
| 188096 | PC54 assembly (enclosure, controller, keypad); requires resolver, resolver cable, output modules and sensors |
| 188097 | PC55 assembly (enclosure, controller, keypad); requires resolver, resolver cable, output modules and sensors |
| 188063 | PC54 controller only; requires customer enclosure, keypad/cable, resolver/cable, output modules, sensors and power supply |
| 188064 | PC55 controller only; requires customer enclosure, keypad/cable, resolver/cable, output modules, sensors and power supply |

Keypads

| Part Number | Description |
|-------------|---|
| 188093 | Keypad display; requires customer enclosure, keypad cable |
| 188098 | Keypad display with enclosure; requires keypad cable |

Modules

| Part Number | Description |
|-------------|---|
| 188087 | Output module; 0–60 VDC, 3 amps; one required for each output channel; use with solenoids and electric guns |
| 188088 | Output module 0–200 VDC 1 amp; one required for each output channel |
| 188089 | Output module; 24–280 VAC 3 amp; one required for each output channel; use with AC solenoid valves |
| 188091 | Run-up module, 0–10 VDC |
| 188092 | Run-up modules, 5–20m A; use with PC44R run-up transducer |

PC50 Series Pattern Controls

Resolvers

| Part Number | Description |
|-------------|--|
| 188065 | Resolver, 19.1 mm (3/4") shaft; requires standard resolver cable |
| 188067 | Resolver, 9.5 mm (3/8") shaft; requires standard resolver cable |
| 188069 | Resolver, waterwash, NEMA-4X, 15.9mm (5/8") shaft; requires waterwash resolver cable |

Cables

| Part Number | Description |
|-------------|--|
| 188072 | Cable, resolver, 9.1 m (30 ft) |
| 188074 | Cable, resolver, 30.5 m (100 ft) |
| 188077 | Cable, resolver, waterwash, 9.1 m (30 ft); requires customer-supplied NEMA-4 X 1/2 NPT cable clamp |
| 188079 | Cable, resolver, waterwash, 30.5 m (100 ft); requires customer-supplied NEMA-4 X 1/2 NPT cable clamp |
| 188083 | Cable, keypad 9.1 m (30 ft); for remote keypad installations |

LogiComm™ Pattern Control and Verification System

Integrated Pattern Control and Verification System

Modular, touch-screen system delivers precise pattern control, quality verification or both.

Nordson's integrated LogiComm system offers a comprehensive, easily-installed adhesive pattern control and verification system ideal for folding carton applications. Multiple, remote touch-screens can be positioned virtually anywhere on the folder gluer for easy operation. This modular system offers a building block approach allowing installation of either pattern control or verification initially, with the capability to easily integrate the other as needed.



Master Modules

| Part Number | Description |
|-------------|---|
| 1053710 | 4 channel pattern master |
| 1053711 | 8 channel pattern master |
| 1053712 | 6 channel verification master |
| 1053713 | 12 channel verification master |
| 1053715 | 4 channel pattern & 6 channel verification combination master |
| 1056040 | Cable, cross-over Ethernet, 10 m, single module only |
| 1056039 | Cable, cross-over Ethernet, 5 m, single module only |

Expansion Modules

| Part Number | Description |
|-------------|--|
| 1053716 | 4 channel pattern expansion |
| 1053718 | 8 channel pattern expansion |
| 1053719 | 6 channel verification expansion |
| 1053720 | 12 channel verification expansion |
| 1053721 | 4 channel pattern & 6 channel verification combination expansion |
| 1058946 | Ethernet hub |
| 1059561 | Cable, Ethernet, for use with hub, 6.1 m |
| 1034149 | Control Module system link connection or ext, 4.4 m |

Touch Screen Panel

| Part Number | Description |
|-------------|-----------------------------|
| 1054943 | XGA touch-screen module |
| 1060754 | Cable, 24V to panel, 5 m |
| 1060755 | Cable, 24V ext, 5 m |
| 1057332 | Kit, panel pivot wall mount |
| 1059653 | Kit, desk top stand |

Service Kits

| Part Number | Description |
|-------------|-------------------------------------|
| 1057882 | Kit, Master I/O bank |
| 1057883 | Kit, Pattern I/O bank |
| 1057884 | Kit, Pattern accelerator board |
| 1057885 | Kit, Verification I/O bank |
| 1057886 | Kit, Verification Accelerator Board |
| 1057887 | Kit, Universal driver board |
| 1057888 | Kit, Power supply module assembly |
| 1057889 | Kit, System link panel |
| 1057890 | Kit, Internal cable set, LogiComm |
| 1057891 | Kit, Fascia LogiComm |
| 1057892 | Kit, Connector panel, driver bank A |
| 1057893 | Kit, Connector panel, driver bank B |

LogiComm™ Pattern Control and Verification System

Integrated Pattern Control and Verification System

Upgrade Kits

| Part Number | Description |
|-------------|--|
| 1057894 | Kit, upgrade, LogiComm 4 channel pattern, universal |
| 1057895 | Kit, upgrade, LogiComm 6 channel verification, no MC |
| 1057896 | Kit, upgrade, LogiComm 6 channel verification, MC |

Spare Parts

| Part Number | Description |
|-------------|---|
| 1053944 | Ethernet cable, 2 ft long, used inside the control module |
| 939683 | Fuse, Type F-fast acting, 5 x 20 mm, 250V, 6.3A, UL |

Accessories

| Part Number | Description |
|-------------|---|
| 1059609 | Remote purge box, 8 inputs |
| 1060380 | Light tower w/siren |
| 1059620 | Light tower cable, 5 meters |
| 1059621 | Light tower extension cable |
| 1059607 | Cable, remote I/O, pigtailed, 5 m |
| 1034147 | Cable ext, remote I/O, 4.4 m |
| 7302542 | Cable, gun, discrete wire termination, 10 m |
| 1059606 | Cable, gun, ext, 5 m |

Mating Connectors

| Part Number | Description |
|-------------|------------------|
| 727216 | Triggers |
| 738197 | Encoders |
| 1055852 | Light tower |
| 1025169 | Encoder repeater |
| 1024628 | Remote I/O |
| 1040684 | Bead sensor |
| 1043254 | Smart sensor |
| 1025168 | Run-up |
| 1030819 | Remote purge |
| 1041836 | Guns |

Encoders

| Part Number | Description |
|-------------|--|
| 727133 | Encoder – 1 pulse/mm, w/wheel and bracket |
| 311433 | Encoder – 500 pulse, w/o wheel – Uni-directional |
| 772050 | Quadrature encoder (metric) |
| 772051 | Quadrature encoder (English) |

Encoders Cables & Accessories

Encoder Part Number 727133

| Part Number | Description |
|-------------|------------------------------------|
| 377222 | Cable, encoder, 1 pulse/mm, 5 m |
| 727940 | Cable, encoder, 1 pulse/mm, 20 ft. |
| 727941 | Cable, encoder, 1 pulse/mm, 30 ft. |

Encoder Part Number 311433

| Part Number | Description |
|-------------|--------------------------|
| 377224 | Cable, encoder, 5 m |
| 372759 | Cable, ext. encoder, 5 m |
| 311454 | Wear resistant wheel |
| 311453 | Rubber-lined wheel |
| 313370 | Encoder bracket |

Encoder Part Number 772050 & 772051

| Part Number | Description |
|-------------|---|
| 377221 | Cable, quadrature encoder, 5 m |
| 372759 | Cable, ext, encoder, 5 m |
| 311454 | Friction wheel, 10 mm diameter, quadrature encoder |
| 296144 | Friction wheel 3/8 in. diameter, quadrature encoder |
| 313370 | Encoder bracket |

LogiComm™ Pattern Control and Verification System

Integrated Pattern Control and Verification System

Triggers

| Part Number | Description |
|-------------|--|
| 738442 | Sensor assembly, feed/force, PZ2-42, 6-1/2 ft. LKG |
| 727141 | Sensor assembly with 1 ft. cable, H.S. |
| 738443 | Sensor assembly, PZ2-42, 1 ft., LKG |
| 313785 | Photocell kit, fiberoptic 2 m |
| 377269 | Photocell, fiberoptic, LKG |

Trigger Cables:

Sensor Part Numbers 738442, 738443, 377269

| Part Number | Description |
|-------------|---|
| 738463 | Cable, ext, sensor/trigger, 10 ft., LKG |
| 738464 | Cable, ext, sensor/trigger, 20 ft., LKG |
| 738465 | Cable, ext, sensor/trigger, 30 ft., LKG |

Sensor Part Number 313785

| Part Number | Description |
|-------------|---|
| 374871 | Cable, ext, for photocell kit, 4 m |
| 313376 | Bracket, clamp mount, for photocell kit |
| 313378 | Bracket, screw mount for photocell kit |

Run-Up Transducer:

| Part Number | Description |
|-------------|---|
| 377573 | Module, I/P, runup, 4X00 |
| 377641 | Cable, runup output, current, 4X00, 5 m |
| 377642 | Cable, runup output, current 4X00, 10 m |

Cables – Electric Guns

| Part Number | Description |
|-------------|---------------------------------------|
| 7302530 | Cable, LA820, 2.5 m (new conn on 820) |
| 7302531 | Cable, LA820, 5 m (new con on 820) |
| 7302532 | Cable, LA820, 10 m (new conn on 820) |
| 1059608 | Cable, LA22, 5 m |
| 1060587 | Cable LA22, 2.5 m |
| 1060588 | Cable, LA22, 10 m |
| 7302533 | Cable, WM801, 2.5 m |
| 7302534 | Cable, WM801, 5 m |
| 7302535 | Cable, WM801, 10 m |

Cables – Pneumatic Guns

| Part Number | Description |
|-------------|--|
| 7302536 | Cable, solenoid, 20 x 27 mm housing, 2.5 m |
| 7302537 | Cable, solenoid, 20 x 27 mm housing, 5 m |
| 7302538 | Cable, solenoid, 20 x 27 mm housing, 10 m |
| 7302539 | Cable, solenoid, 16 x 16 mm housing, 2.5 |
| 7302540 | Cable, solenoid, 16 x 16 mm housing, 5 m |
| 7302541 | Cable, solenoid, 16 x 16 mm housing, 10 m |

LogiComm™ Pattern Control and Verification System

Verification Sensors

| Part Number | Description |
|-------------|--|
| 738243 | GD100W, sensor assembly, 16 mm lens, 32" LG. |
| 738051 | GD100W, sensor assembly, 16 mm lens, 18" LG. |
| 727120 | Sensor, cello presence |
| 727138 | Sensor, cello position |
| 738602 | Security tag |
| 377499 | Sensor, HD-100, hot melt |
| 727659 | Sensor, HD-100, package |
| 738272 | Sensor, LAD, package |
| 738180 | Scanner head, LA5100, USA codes |

Reject, Marking & Batch Control Equipment

| Part Number | Description |
|-------------|---|
| 377491 | Ejector, rotary, 230VAC, CE |
| 377490 | Ejector, rotary, 400-460VAC, CE |
| 738562 | Ejector, rotary, 115VAC, CW ROT, W/MC control |
| 727119 | Pusher, pneumatic (includes air regulator and hose) |
| 727664 | System, ink marking, ENVL, w/20 ft. cable (US) |

Sensor Cables

| Part Number | Description |
|-------------|-------------------------------|
| 727142 | Cable, sensor, GD-100, 10 ft. |
| 727143 | Cable, sensor, GD-100, 20 ft. |
| 727688 | Cable, sensor, GD-100, 30 ft |
| 727648 | Cable, laser scanner, 12 ft. |
| 727658 | Cable, laser scanner, 24 ft. |
| 377500 | Cable, HD-100, 10 m |

Temperature controls

TC 200 Two – Channel Stand – Alone Temperature Control

The TC200 Temperature Control allows you to add another hose and gun to your applicator if you have an unused hose port but no temperature control function in the unit.

| Part Number | Description |
|-------------|----------------------------|
| 136899 | TC200 Control |
| 939683 | Fuse, 6.3 A, 250V |
| 136930 | Fuse Holder |
| 136923 | Rocker Switch, DPDT, 250 V |
| 148027 | Cap assembly, hose |

Hose Extension Cordsets - 12 pin to 12 pin

| Part Number | Description |
|-------------|-------------|
| 115576 | 2 ft |
| 115577 | 6 ft |
| 115578 | 12 ft |
| 115579 | 18 ft |
| 115580 | 24 ft |
| 115581 | 30 ft |



TC 200

Gun Extension Cordsets - 6 pin to 6 pin

| Part Number | Description |
|-------------|-------------|
| 133207 | 2 ft |
| 125356 | 6 ft |
| 125360 | 12 ft |
| 125361 | 18 ft |
| 125362 | 24 ft |

Adapter Cable

| Part Number | Description |
|-------------|--|
| 116998 | Splitter cable, 12-pin to (2) 6-pin connectors, 2 ft |
| 134174 | Adapter Cord, 12-pin to 6-pin, 6 ft |
| 164045 | Adapter Cord, 12-pin to 6-pin, 10 ft |
| 134172 | Adapter Cord, 12-pin to 6-pin, 12 ft |
| 108946 | Adapter Cord, 12-pin to 6-pin, 16 ft |
| 135972 | Adapter Cord, 12-pin to 6-pin, 24 ft |