IMI

# Industrial Automation

Our product brands:

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# Excelon® Plus ½" 84 Series with Integrated Electronic Pressure Sensor

## A Complete Air Preparation Solution with IO-Link

Excelon® Plus Air Preparation has been designed with flexibility and safety in mind, offering built in, tamper proof features and a unique double lock mechanism on the bowls. Maintenance of the unit is simplified with the new system where the element assembly is removed together with the bowl. The flexible design also allows in-line installation, or modular installation with other Excelon® Plus products. Excelon® Plus ½" 84 Series is IO-Link enabled, offering the perfect solution for remote diagnosis, simplified installation and automated parameter setting.

### A complete Air Preparation Solution:

- Three thread sizes (3/8", 1/2", 3/4") and two thread forms (ISO G, NPT)
- Three filter variants
- Two regulator variants with three spring choices
- Filter/regulators
- Two lubricator variants
- Combination units—standard & IO-Link connected
- Several valve options (manual, dump, soft start dump)
- IO-Link enabled

### Product Highlights:

- Simple set-up
- Fully integrated design
- IO-Link
- Robust
- Programmable color display
- Standard M8 connection

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# Excelon® Plus ½" 84 Series Integrated Electronic Pressure Sensor

Adding IO-Link connectivity to the renowned Excelon® Plus, the integrated electronic pressure sensor is available as a stand-alone unit, regulator, filter-regulator or as part of a box-set combination unit.

Supporting process and productivity analytics and optimisation; predictive maintenance; machine learning and lifecycle management, Excelon® Plus with IO-Link integrated electronic pressure sensor is the ideal solution for faster, more efficient and reliable production.

## Connected

IO-Link capability allows remote set-up and application performance data for improved monitoring.

- Pressure sensor calibration can be adjusted via IO-Link for offset and span correction
- Built-in diagnostics, self-testing and fault reporting of sensor & gauge status offers intelligence for monitoring & measurement
- Pressure transducer output
- Operating temperature and supply voltage are transmitted as "process variables" once per second
- Ideal for high thrust force applications

## Configurable

Three output options:

- Digital Output Type: NPN, PNP, Push-Pull
- Digital Output State: Normally High (NC) Normally Low (NO)
- Transducer via IO-Link

## Parameterization

Adjustable settings including setpoint, tolerance, hysteresis, pressure units, temperature units and screen orientation.

## Flexible

- Select & program using a choice of pressure units, either 0 to 10 bar, 0 to 145 psi or 0 to 1 Mpa
- 3 variants: Integrated Regulator unit, Integrated Filter-Regulator unit or Stand-alone unit

## Easy to use visual management

- Graphical status indicators for IO-Link connectivity and digital output
- Backlight can be turned on / off via IO-Link
- Programmable
- 1.44" Color TFT display for easy identification of correct pressure setting
- Green (pressure is within limits), Red (pressure is outside limits) or Amber (fault)

## Easy to Install

- Field installable connector system with M8 x 4 male electrical connections, as per IO-Link specification (v 1.1.2)
- Fully integrated design
- Easy parameterization and set-up via 3 push-buttons and intuitive menu
- Buttons lockable via IO-Link with PIN protection and tamper detection

## Robust and Reliable

- Conforms to environmental tests for temperature, humidity
- (ETSI 300 019-2-3), shock & vibration (BS EN 60068-2-6)
- The silicon sensor can withstand 1.5 times overpressure without compromising accuracy
- Built in protection against overvoltage, reverse polarity and short circuit on signal lines
- The on board sensor is coated which protects it from water in the airline

## Visual Management Indicators

Switched off

**Green:** At or above pressure setting


**Amber:** System Fault


**Red:** Secondary pressure is below setting