

# Integrated marshalling solution that is fast, simple, and flexible

# EcoStruxure<sup>™</sup> Foxboro<sup>®</sup> DCS Intelligent Enclosures



## **Unique Features**

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The EcoStruxure Foxboro DCS Intelligent Enclosures provides an integrated solution that is designed to be flexible and distributed. Designed for use outdoors or indoors (including hazardous areas), universal I/O field enclosures provide the flexibility to distribute I/O where and when required.

- Standard, off-the-shelf enclosures are factory tested and can be shipped and installed early
- Universal I/O each channel can be configured as required
- Flexible Lean Engineering (FLEX) for project implementation
- Intelligent Commissioning Wizard to significantly reduce
  device commissioning

## **Benefits**

#### **Reduce Equipment Costs**

• Fewer central cabinets, marshalling racks, remote instrument enclosures

#### **Reduce Field Labor Cost**

Reduce marshalling work

#### **Reduce Documentation**

- Fewer and simpler drawings
- **Reduced Spare Parts**
- No need to stock as many types of spares

#### **Reduced Field Maintenance Costs**

• Central configuration reduces the need for field technician efforts

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# What is an Intelligent Enclosure?

It is a standard, off-the-shelf, pre-engineered enclosure ideal for applications requiring modular, cost effective distributed I/O. It comes in two designs, one for installation in the equipment room, and the other for field locations including outdoors, providing the flexibility to distribute I/O where and when required. It can be ordered using a simplified part number and delivered pre-tested direct to site.

#### The use of standard, pre-tested enclosures can:

- Reduce system design, engineering and documentation efforts
- Be shipped, installed and wired early for faster project execution and start-up
- Be installed in support of plant construction schedule and then be configured when design information becomes available
- Be located closer to field instruments, reducing field cabling lengths and installation costs

Lastly, the Intelligent Enclosure has a similar offering for safety applications. The design processes and the scheduling advantages for the Foxboro DCS also applies to the Tricon CX.

#### Experience the Benefits of Intelligent Enclosures

#### Faster implementation and start-up

- More options mean more flexible timelines and plant construction critical path time can be reduced
- Installation work can be started sooner since the I/O mix can be defined and changed much later in the construction schedule

#### Cabinets to field before final design

- Faster shipments mean parts can get to site sooner and work can begin right away
- Fewer spares are necessary to complete the projects. This reduces costs of spares and on-site inventory requirements

#### Easy to implement last minute design changes

- Universal I/O permit plant system changes to be readily accommodated
- Field changes after Factory Acceptance Test can be made and validated

#### Huge cost savings with elimination of marshalling cabinets

- Elimination of the need for marshalling cabinets eliminates all associated design and craft labor efforts
- Reduced field and maintenance labor costs
- Decreased inventory and cost of spares
- Less engineering work and less documentation to maintain



#### Schneider Electric Universal I/O Technology

#### Reduce Complexity and Cost

- Control system design and implementation prior to the purchaser's process design completion
- Leverage configuration standards
- Break schedule dependencies between mechanical system design/ procurement and control system work

#### Improve Flexibility

- Most types of field devices can be brought directly into Universal I/O card without cross wiring the signals
- Utilize standardized technologies
- Accommodate changes as they emerge

#### Achieve Schedule Integrity

- Intelligent Marshalling solution permits last minute design changes without affecting construction critical path schedule
- Decouple I/O system installation from mechanical system and control system design

#### Certifications

- The Field Intelligent Enclosure provides protection against harsh environments and hazardous locations:
- NEMA<sup>®</sup> 4X/IP66 rated
- Class G3 (harsh) environment
- ATEX certification

#### Applications - All DCS industries, including

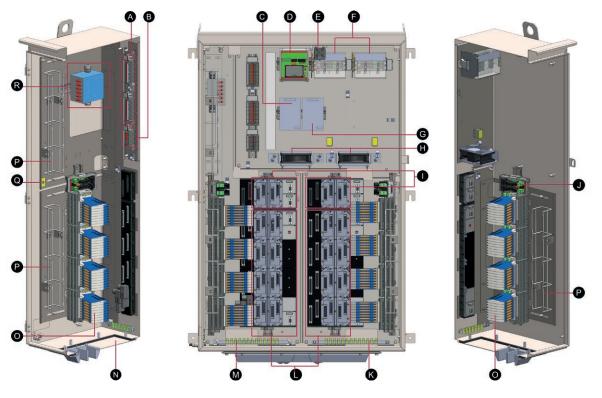
- Oil & Gas Plants
- Chemical Plants
- Mining & Mineral Plants



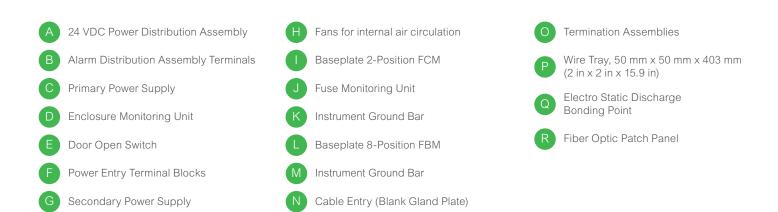
FBM247 Module



#### Foxboro DCS Equipment Room Intelligent Enclosure Layout



Front Interior View of Left and Right-Side Panel of the Enclosure



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