

# FACS 4.E

## FACS 4.E DISTRIBUTED POWER/CONTROL

Conveying System Controller using “Power Over Ethernet” technology for communication and powered device operation. HMI is accomplished using Windows PCs Server workstation, with available 16 client computers or tablets for re-remote monitoring and access. POE Switch Panels are provided to comprise the FACS Machinery Network, configured with the necessary POE Ethernet Ports to connect to remote device panels to operate the system components.

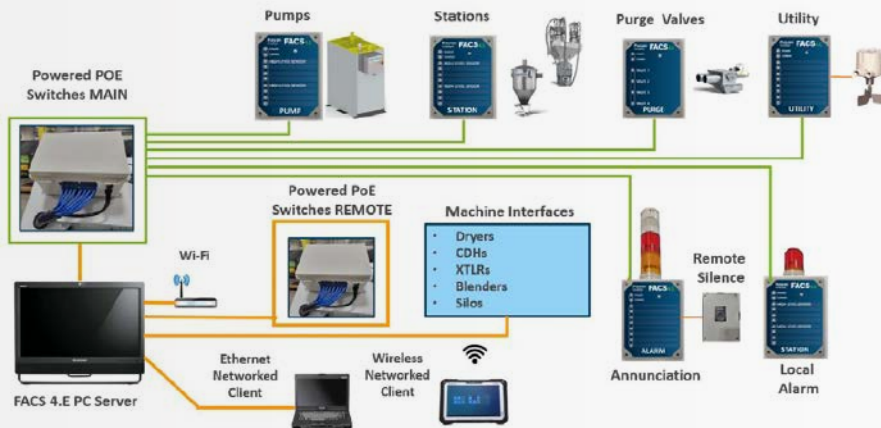
FACS Panels are available for Pumps, Station groups, Purge Valve groups and Utility Panels, each with the required I/O points to operate the equipment. Alarm visualization is provided with dedicated Annunciator Panel, configurable to the selectable component conditions.

Equipment groups are assembled in proximity to the Main POE Switch, to operate the local area machines. Remote POE Switches can be added to the Non-POE network to provide additional I/O points in a remote area using Star Network Topography.

FACS 4.E is more than a conveying system control, it can serve as a central supervisory system with direct machinery interfaces for monitoring and control of Dryers, Central Dryer Units, Crystallizers, Blenders and Silos.

Using the Windows-based platform, FACS 4.E is simple to install, setup and operate. Full graphic displays show all component functions and device indication. Extensive input screens are available for all device parameter setting.

All changes are logged with Event and Alarm History reports are available on demand, selectable by production range.



Simple, ethernet connectivity for power and control



Infinite Low-Cost DIY Expansions



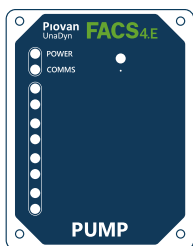
PC Server HMI with up to 16 Clients PCs or Tablets with Machine Auxiliary Interface

# FACS 4.E SYSTEM COMPONENTS

<p><b>FACS POE Switch Panels</b></p>	<p>POE-8: 7 usable ports, 1 reserved for FACS Server Network                  POE-16: 15 usable ports, 1 reserved for FACS Server Network and (2) used for joining (2) (8)-port integral switches Requires 110 VAC power</p>
<p><b>FACS 4.E Modules</b></p>	<ul style="list-style-type: none"> <li>- Compact panel with control and communication boards</li> <li>- External Ethernet connector</li> <li>- Component Operation I/O Visualization with LED Indication</li> <li>- (4) Terminalized Connectors to paired I/O Points</li> </ul>



## Pump Module – Single Pump and Filter



**Inputs:** \* Required

- Vacuum Switch \*
- Motor Overload
- Local On/Off

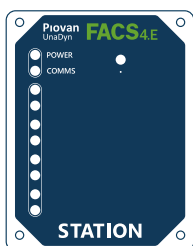
**Outputs:** \* Required

- Vacuum Pump Motor Starter \*
- Vacuum Breaker Valve
- Filter Pulse
- Exhaust Segregation

## Server Network for HMI and Remote Interface



## Station Module – Single, Quad, Dual Bonus or Dual Simple/One Bonus



**Inputs:** \* Required + (3)

- Load Level Sensor \*
- High Material Sensor for Load-Till-Full or Continuous Vacuum
- Stop Load Input
- Local On/Off

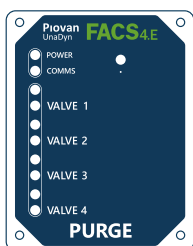
**Outputs:** \* Required + (3)

- Vacuum Sequence Valve \*
- Dual Ratio Valve
- Positive Shut-off
- Filter Pulse
- Dump Valve
- Local Purge Valve
- Local FACS 4.E Box Alarm



Standard Terminalized I/O Plug/Connectors

## Purge Module – Operates up to (4) Material Global Purge Valves



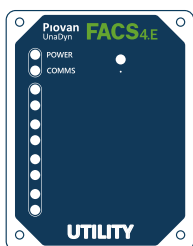
**Outputs:**

- Purge Valve 1
- Purge Valve 2
- Purge Valve 3
- Purge Valve 4



System-wide Alarm Annunciator with optional remote silence

## Utility Module – Operates up to (4) discreet custom alarm outputs



**Outputs:**

- Utility Point 1
- Utility Point 2
- Utility Point 3
- Utility Point 4



Panel-mounted Local Alarm