

# Facility Pro® Environmental Monitoring Systems

Data Processing and System Control

*central hub for a facility monitoring system that communicates with cleanroom sensors*

*Without measurement there is no control*



FacilityPro 1010



FacilityPro 3010



FacilityPro 5010

## Viable/Nonviable/Environmental Monitoring

The FacilityPro® processor provides the central hub for an environmental monitoring system. The processor communicates with cleanroom sensors, including particle and microbial monitors, while buffering data and checking tolerances for alarm activation.

## Industrial Automation Architecture

As a key component of industrial automation architecture, this embedded system offers high reliability as it controls samples and communicates with central software.

## Three Versions

FacilityPro processors are available in three versions, with varying features to support a range of system designs and applications:

- FacilityPro 5010
- FacilityPro 3010
- FacilityPro 1010

All three FacilityPro processors are compatible with either the FacilityPro SCADA NG server software or the FacilityPro SMART NG server module.

## BENEFITS

- Designed specifically for pharmaceutical environmental monitoring
- Integration and control of viable and nonviable sampling
- High data integrity
- Ultimate efficiency and reduced error
- Simple installation and validation
- Flexible integration

## FEATURES

- Compatible with either the FacilityPro SCADA server software or the FacilityPro SMART server module
- Available in three versions: FacilityPro 5010, FacilityPro 3000 and FacilityPro 1000
- 21 CFR Part 11 compliant

## APPLICATIONS

Monitoring of critical environments including:

- Filling lines
- Isolators and RABS
- Blow-Fill-Seal
- Lyophilizer processes and transfer carts
- Biosafety cabinets and flow hoods
- General cleanroom and facility monitoring

# Facility Pro<sup>®</sup> Environmental Monitoring Systems

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Specifications

## FacilityPro 5010

A fully-integrated solution for system control. Modules housed in a standard 19-inch rack.

### Processor Module

|                              |                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Display</b>               | 6.5-in TFT LCD with resistive touchscreen                                                                                                                                                                                                       |
| <b>Dimensions (l, w, h)</b>  | 13.5 x 19.0 x 8.75 in (34.3 x 48.3 x 22.3 cm), 5U height                                                                                                                                                                                        |
| <b>Weight</b>                | 34.5 lb (15.7 kg)                                                                                                                                                                                                                               |
| <b>Power</b>                 | 100 – 240 VAC, 50 – 60 Hz, 600 W                                                                                                                                                                                                                |
| <b>Operating Environment</b> | Temperature: 39 – 104 °F (4 – 40 °C); non-condensing                                                                                                                                                                                            |
| <b>Inputs/Outputs</b>        | Up to 64 particle or microbial sensors<br>Digital (1 standard, 3 optional)<br>16 relay or digital outputs (configurable)<br>8 digital inputs<br>Analog (3 optional)<br>8 analog inputs 0-10 VDC or 4-20 mA<br>*Up to 4 digital or analog boards |

### Pneumatic Module

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| <b>Dimensions (l, w, h)</b>  | 8 x 19 x 7.0 in (20 x 48.3 x 17.8 cm), 4U height     |
| <b>Weight</b>                | 26.4 lb (12 kg)                                      |
| <b>Power</b>                 | 100 – 240 VAC, 50 – 60 Hz, 240 W                     |
| <b>Operating Environment</b> | Temperature: 39 – 104 °F (4 – 40 °C); non-condensing |
| <b>Sensors</b>               | 8 sensors, Airnet II or BioCapt                      |

### Input/Output Module

|                              |                                                                                                                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions (l, w, h)</b>  | 12.0 x 19.0 x 7.0 in (30.5 x 48.3 x 17.8 cm), 4U height                                                                                                                                                |
| <b>Weight</b>                | 31.4 lb (14.2 kg)                                                                                                                                                                                      |
| <b>Power</b>                 | 100 – 240 VAC, 50 – 60 Hz, 240 W                                                                                                                                                                       |
| <b>Operating Environment</b> | Temperature: 39 – 104 °F (4 – 40 °C); non-condensing                                                                                                                                                   |
| <b>Inputs/Outputs</b>        | Digital (1 standard, 3 optional)<br>16 relay or digital outputs (configurable)<br>8 digital inputs<br>Analog (3 optional)<br>24 analog inputs 0-10 VDC or 4-20 mA<br>*Up to 4 digital or analog boards |

### Power Module

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| <b>Dimensions (l, w, h)</b>  | 14.0 x 19.0 x 5.25 in (35.6 x 48.3 x 13.3 cm), 3U height |
| <b>Weight</b>                | 22.3 lb (10.1 kg)                                        |
| <b>Power</b>                 | 380–480VAC 3-ph, 50–60Hz and 100-240VAC, 50-60Hz         |
| <b>Operating Environment</b> | Temperature: 39 – 104 °F (4 – 40 °C); non-condensing     |



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## FacilityPro 3010

A reliable data and I/O processor designed specifically for smaller systems.

|                             |                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions (l, w, h)</b> | 6.2 x 19.0 x 13.2 in (15.8 x 48.3 x 33.5 cm)                                                                                                                                                                                     |
| <b>Weight</b>               | 27.5 lb (12.5 kg)                                                                                                                                                                                                                |
| <b>Power</b>                | 100 – 240 VAC, 50 – 60 Hz, 350 W                                                                                                                                                                                                 |
| <b>Inputs/Outputs</b>       | Up to 64 particle or microbial inputs (configurable)*<br>16 relay or digital outputs (configurable)<br>8 digital inputs<br>8 analog inputs, 0 – 10 VDC or 4-20mA (optional) or<br>16 digital outputs/8 digital inputs (optional) |

*\*not suitable with sensor module connection*



## FacilityPro 1010

Data processor with no built-in I/O, designed to provide a reliable Ethernet interface to viable and nonviable sensors and to upgrade existing ENODE-based systems.

|                             |                                           |
|-----------------------------|-------------------------------------------|
| <b>Dimensions (l, w, h)</b> | 5.7 x 9.0 x 2.6 in (14.5 x 23.0 x 6.5 cm) |
| <b>Weight</b>               | 2.5 lb (1.14 kg)                          |
| <b>Power</b>                | 120 VDC, 1.5 A                            |
| <b>Inputs/Outputs</b>       | Up to 64 particle or microbial inputs     |



# Facility Pro® Environmental Monitoring Systems

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Specifications

## Feature Comparison

|                                              | FacilityPro 1010                      | FacilityPro 3010                      | FacilityPro 5010                             |
|----------------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------------|
| Particle & microbial points per processor    | Up to 64 particle or microbial inputs | Up to 64 particle or microbial inputs | Up to 64 particle or microbial inputs        |
| Digital outputs (selectable relay or 24 VDC) | -                                     | 16                                    | Up to 128 in processor (optional I/O module) |
| Digital inputs                               | -                                     | 8                                     | Up to 64 in processor (optional I/O module)  |
| Analog inputs (optional)                     | -                                     | 8                                     | Up to 192 in processor (optional I/O module) |
| Cubic meter algorithms                       | ✓                                     | ✓                                     | ✓                                            |
| Tolerance checking                           | ✓                                     | ✓                                     | ✓                                            |
| Recipe-driven sampling                       | ✓                                     | ✓                                     | ✓                                            |
| Data buffer                                  | ✓                                     | ✓                                     | ✓                                            |
| Real-time microbial monitoring               | -                                     | -                                     | ✓                                            |
| Vacuum and air flow control                  | -                                     | -                                     | ✓                                            |
| Microbial monitoring with central vacuum     | -                                     | -                                     | ✓                                            |

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