

# FacilityPro® Environmental Monitoring Systems

Data Processing and System Control



FacilityPro 1010



FacilityPro 3010



FacilityPro 5010

## 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

## 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

## 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.



*Without measurement there is no control*

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## 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 Digital (1 standard, 3 optional) 16 relay or digital outputs (configurable) 8 digital inputs Analog (3 optional) 8 analog inputs 0-10 VDC or 4-20 mA *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) 16 relay or digital outputs (configurable) 8 digital inputs Analog (3 optional) 24 analog inputs 0-10 VDC or 4-20 mA *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>	460–480VAC 3-ph, 50–60Hz and 100-240VAC, 50-60Hz
<b>Operating Environment</b>	Temperature: 39 – 104 °F (4 – 40 °C); non-condensing



# FacilityPro<sup>®</sup> Environmental Monitoring Systems

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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>	16 particle or microbial inputs (configurable) 16 relay or digital outputs (configurable) 8 digital inputs 8 analog inputs, 0 – 10 VDC or 4-20mA (optional) or 16 digital outputs/8 digital inputs (optional)



## 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>	8, 16 or 32 particle or microbial inputs I/O via ENODE <sup>®</sup> interface only. Limited to 6 ENODE modules.



# FacilityPro<sup>®</sup> Environmental Monitoring Systems

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## Feature Comparison

	FacilityPro 1010	FacilityPro 3010	FacilityPro 5010
Particle & microbial points per processor	8, 16, 32 (groups of 8)	16 (particle or microbial)	64 (groups of 8)
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)
ENODE support	y	-	-
Cubic meter algorithms	y	y	y
Tolerance checking	y	y	y
Recipe-driven sampling	y	y	y
Data buffer	y	y	y
Real-time microbial monitoring	-	-	y
Vacuum and air flow control	-	-	y
Microbial monitoring with central vacuum	-	-	y

- : not supported    y : supported

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