

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.

FacilityPro® Environmental Monitoring Systems

Data Processing and System Control

FacilityPro 5010

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

Processor Module

Display	6.5-in TFT LCD with resistive touchscreen
Dimensions (l, w, h)	13.5 x 19.0 x 8.75 in (34.3 x 48.3 x 22.3 cm), 5U height
Weight	34.5 lb (15.7 kg)
Power	100 – 240 VAC, 50 – 60 Hz, 600 W
Operating Environment	Temperature: 39 – 104 °F (4 – 40 °C); non-condensing
Inputs/Outputs	Up to 64 particle or microbial sensors 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

Pneumatic Module

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

Input/Output Module

Dimensions (l, w, h)	12.0 x 19.0 x 7.0 in (30.5 x 48.3 x 17.8 cm), 4U height
Weight	31.4 lb (14.2 kg)
Power	100 – 240 VAC, 50 – 60 Hz, 240 W
Operating Environment	Temperature: 39 – 104 °F (4 – 40 °C); non-condensing
Inputs/Outputs	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

Dimensions (l, w, h)	14.0 x 19.0 x 5.25 in (35.6 x 48.3 x 13.3 cm), 3U height
Weight	22.3 lb (10.1 kg)
Power	460–480VAC 3-ph, 50–60Hz and 100-240VAC, 50-60Hz
Operating Environment	Temperature: 39 – 104 °F (4 – 40 °C); non-condensing



FacilityPro® Environmental Monitoring Systems

Data Processing and System Control

FacilityPro 3010

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

Dimensions (l, w, h)	6.2 x 19.0 x 13.2 in (15.8 x 48.3 x 33.5 cm)
Weight	27.5 lb (12.5 kg)
Power	100 – 240 VAC, 50 – 60 Hz, 350 W
Inputs/Outputs	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)



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.

Dimensions (l, w, h)	5.7 x 9.0 x 2.6 in (14.5 x 23.0 x 6.5 cm)
Weight	2.5 lb (1.14 kg)
Power	120 VDC, 1.5 A
Inputs/Outputs	8, 16 or 32 particle or microbial inputs I/O via ENODE® interface only. Limited to 6 ENODE modules.



FacilityPro® Environmental Monitoring Systems

Data Processing and System Control

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

ENODE® and FacilityPro® are registered trademarks of Particle Measuring Systems, Inc.
Windows® is a registered trademark of Microsoft Corporation.
All other trademarks are the property of their respective owners.
Particle Measuring Systems, Inc. reserves the right to change specifications without notice.
© 2018 Particle Measuring Systems, Inc.
All rights reserved.



HEADQUARTERS

5475 Airport Blvd
Boulder, Colorado 80301 USA
T: +1 303 443 7100, +1 800 238 1801

Instrument Service & Support
T: +1 800 557 6363

Customer Response Center
T: +1 877 475 3317
E: info@pmeasuring.com

GLOBAL OFFICES

AUSTRIA
T: +43 512 390 500
E: pmsaustria@pmeasuring.com

BENELUX
T: +32 10 23 71 56
E: pmsbelgium@pmeasuring.com

BRAZIL
T: +55 11 5188 8227
E: pmsbrazil@pmeasuring.com

CHINA
T: +86 21 6113 3600
E: pmschina@pmeasuring.com

FRANCE
T: 33(0)1 60 10 32 96
E: pmsfrance@pmeasuring.com

GERMANY
T: +49 6151 6671 632
E: pmsgermany@pmeasuring.com

ITALY
T: +39 06 9053 0130
E: pmsrl@pmeasuring.com

JAPAN
T: +81 3 5298 8175
E: pmsjapan@pmeasuring.com

KOREA
T: +82 31 286 5790
E: pmskorea@pmeasuring.com

MEXICO
T: +52 55 2271 5106
E: pmsmexico@pmeasuring.com

NORDIC
T: +45 707 028 55
E: pmsnordic@pmeasuring.com

PUERTO RICO
T: +1 787 718 9096
E: pmspuertorico@pmeasuring.com

SINGAPORE
T: +65 6496 0330
E: pmsingapore@pmeasuring.com

SWITZERLAND
T: +41 71 987 01 01
E: pmsswitzerland@pmeasuring.com

TAIWAN
T: 886-3-5525300 Ext: 301
E: pmstaiwan@pmeasuring.com