

# MiniCapt® Pro

Remote Microbial Air Sampler

*Microbial Air Sampling for viable particle contamination with easy integration into an Environmental Monitoring System*

*Without measurement there is no control*

The MiniCapt® Pro Microbial Air Sampler allows the user to perform microbial air sampling in cleanroom environments for viable particle monitoring. The sampler is designed for critical manufacturing environments according to ISO Class 5/7 and GMP Grade A/B and for use in background areas monitored by a Facility Monitoring System (FMS).

MiniCapt Pro can be fully integrated into Particle Measuring Systems' FacilityPro system or other FMS using MODBUS communications. It's fully compliant with the ISO 14698 standard, and the MiniCapt Pro can be installed with an optional inlet filter between the sampling atrium and the instrument or with an external filter on the exhaust for protection from contaminated air samples.

The MiniCapt Pro can easily connect to the BioCapt® stainless steel impactor or the BioCapt® Single Use impactor head. Both have precision-cut radial slits ensuring laminar flow, making false positive identification easier, and maximizing collection efficiencies for viable particles in accordance with ISO 14698-1. The versatile and adjustable dimensions of the BioCapt units allow the MiniCapt Pro Sampler to be used with almost every commercially available agar plate.

The MiniCapt Pro can be powered by PoE or via optional 24 VDC or 110-240 VAC power. Options include two digital inputs, three digital outputs as well as the ability to communicate via WiFi with a plug in USB adapter.



## BENEFITS

### Fully Compliant

- ISO, USP, EP, and JP
- In accordance with most recent data management requirements

### Precision (BioCapt® and BioCapt® Single-Use)

- Meets ISO 14698-1
- Radial slit design ensures optimal recovery for microorganisms during sampling
- Immediate and easy detection of false-positive results
- Feller correction only above 57 CFU needed, max 3% overlap deviations at 200 CFU

### Security

- Remote Sampling ensures low intervention
- No environmental contamination of critical control points with optional HEPA-filtered inlet and exhaust air
- Single Use Sampling method with BioCapt Single-Use reduces risk to the process and the final product

## FEATURES

- ISO 14698-1 compliant
- PoE option for simple installation and communications.
- Quick disconnect mounting bracket with optional NFC configuration for simplified installation
- Adjustable height and diameter mechanism for versatile agar dish compatibility with BioCapt
- Modern and easy to use data and sample configuration management by integration with the FacilityPro® system or other existing monitoring systems via MODBUS
- Optional DC or AC power along with optional Digital inputs/ outputs. Plug in WiFi capability

## APPLICATIONS

- Microbial air sampling of critical control points in cleanrooms and associated controlled environments
- Microbial air sampling in aseptic manufacturing areas (e.g., cleanrooms, isolators, RABS) according to regulations

# HPD III (High Pressure Diffuser)

Aerosol Monitoring Accessory

Specifications

MiniCapt	Pro-E 25	Pro-Plus 25
Sampling flow rate	25 LPM	25 LPM
Communication	Modbus TCP or Serial TCP	
Data Buffer	Up to 6 hours (continuous sampling)	
Flow Accuracy	± 2%	
Dimensions (h, w, d)	Enclosure and Bracket: 208 x 157 x 145 mm, (8.2 x 6.2 x 5.7 in) Enclosure: 157 x 157 x 140 mm, (6.2 x 6.2 x 5.3 in)	
Weight	3.1 kg (6.9 lbs)	3.3 kg (7.2 lbs)
Operating environment	Temperature: 41 – 95 °F (4 - 35 °C); Humidity: non-condensing	
Maximum Altitude	2000 m (6,562 ft)	
Enclosure Protection	IP65	
Calibration Interval	Recommended every 12 months	

## Utility Requirements

Electrical Rating	PoE 48 VDC 25 W	100-240 VAC 50-60 Hz 1-3 A max
VDC power supply	-	24 VDC ± 10%; 1.2 A
Fuses	-	T1A (Slow)
USB Port	1	1
Ethernet Port	1	1
Digital Input	-	2
Digital Output	-	3
Max Rating for each Digital Input	-	Dry 500 mA, 24 VDC Powered 100 mA
Material	ASIS 316 stainless steel	

## Installation Requirements

Indoor use only  
Pollution degree 2  
Over-voltage Category II  
Ordinary Protection (Not protected against harmful ingress of moisture.)  
Class I Equipment (Electrical earth ground from the mains power source to the product input is required for safety.)



Isolator Monitoring Kit



Remote ISP Sampling Kit



Elbow (left) and Bottom (right) sampling adapters for remote connection to BioCapt® Single-Use

## HEADQUARTERS

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

Instrument Service & Support  
T: +1 800 557 6363

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

www.pmeasuring.com  
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 44 589 3498  
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: pms taiwan@pmeasuring.com



BioCapt® and MiniCapt® are registered trademarks of Particle Measuring Systems, Inc. All other trademarks are the property of their respective owners. Patent details available at: pmeasuring.com/trademarks-patents. Particle Measuring Systems, Inc. reserves the right to change specifications without notice. © 2022 Particle Measuring Systems, Inc. All rights reserved. 11282022