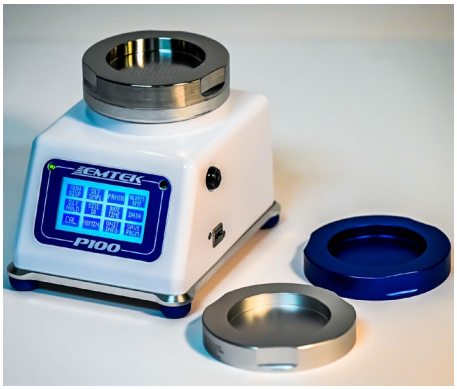
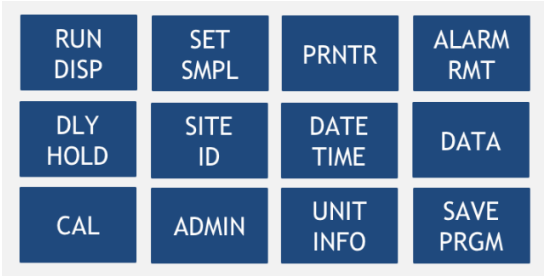
P100 Portable Microbial Air Sampler

EMTEK's P100 Portable Microbial Sieve Sampler is designed to operate in a variety of Critical Environments including LAF Hoods, BSCs, Isolators, Sterility Chambers, Filling Lines, Bulk Production Areas, Surgical Amphitheaters, and Compressed Air/Gas Systems, but are practical for use in almost any environment.



P100 CONTROLLER – General Specifications

- Controlled Sample Rates of 28.3 and 100 LPM
- Dimensions: LxWxH = 7.5" x 5.5" x 6" / Weight: <4.4 lbs (2 kg)
- LCD View Screen w/Touch Screen Interface
- Controller Enclosure: Kydex® with Microban® (for Anti-Microbial Protection)
- P100 Inlet Cover Anodized 6061-T6 Aluminum with color-coded 28.3 or 100 LPM Sample Rates, also available in 316SS.
- Inlet cover is a sieve pattern of 300 holes which are appropriately sized for either 28.3 or 100LPM flow rates
- Media Stage with Adjustable height to accept 15-40ml Fill 90mm Test Plates
- HEPA Filtered Exhaust, 0.2 Micron (w/remote exhaust tubing option)



P100 MICROBIAL AIR SAMPLING PACKAGE - with 6061-T6 Aluminum or Optional 316SS Inlet Cover

Standard Package Includes:
-P100 Air Sampler
-Includes P100 Version 2.00 FW, with Enhanced CFR 21 Part 11 Compliance for P100
-Inlet Cover (Choose 1): 28.3 LPM, or 100 LPM
Note: Specify Desired Inlet Cover Flow Rate(s) when ordering.
-IR Remote Control / 5 Channels (Start/Pause/Stop)
-Inlet Cover Lid / Port & Plug Set (USB, RJ45, Inlet/Outlet Plug)
-User Manual & Associated Documents (on 1 8GB USB Drive)
-AC/DC Power Supply/Battery Charger
-NIST Traceable Calibration and Certificate
-Custom Carrying Case (Plastic Case, Custom Component Inserts)
-Standard 2-Year Warranty

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P100 DATA/COMMUNICATION

- Ethernet Port: Unit Calibration, PC Communication, and Data Output to PDF or Optional Printer
- USB Port: Data Retrieval via USB Drive, or PC
- User Selectable Parameters: Sample Rate, Sample Time or Volume, Delay/Test/Hold, Time Base, Date Format, User ID, etc.
- Sample Run Memory (500 Runs) – Critical Sample Run Parameters Captured
- Sample Run Data Output to Printer, USB, or PC / Sample Label, Locked PDF Report, or .csv File Outputs.
- Data Control through System Admin/User ID Control (Part 11 Compliant)
- Site Description Entry/Maintenance/Capture
- Optional: PC Control Software - Offers Substantial Operative PC Control of a single, or multiple P100's via Ethernet connection to a Local Area Network (LAN). General Control: Start, Stop, Pause, Resume, Set/View: Date, Time, Sample Volume, Sample Time, Delay, Test, Hold, Site ID, Bldg/Room Data View/Output: On Screen, .csv File, or Locked PDF Report Output

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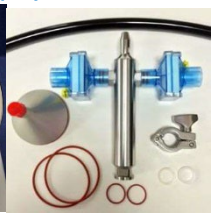
P100 Optional Accessories

- Stainless Steel Inlet Cover, available for both 28.3 or 100LPM flow rates
- Compressed gas sampling kit, includes filtered High Pressure Diffuser, compressed gas sampling inlet adapter, clamps, and 2.5’ of tubing
- Portable handheld thermal printer kit, including thermal printer, ethernet communication cable, charger, and printer label rolls
- PC Control Software (See data/communication section for details)
- Remote sampling via open-flow assembly to an EMTEK Remote Air Sampler (RAS) attached w/ up to 10’ of tubing
- Remote dual 28.3LPM sampling via barbed inlet cover utilizing tubing with two EMTEK Remote Air Samplers (RAS)

The RAS can be employed for use with either the side or bottom vacuum port, and with either a sanitary or barbed connector.


P100 Air Sampler Controller System Additional Specifications	
Sample Time/Volume	Variable (User Defined), Maximums: 120-minutes/3396 Liters* @ 28.3 LPM, 30-min/3000L @ 100 LPM
Delay/Hold Times	Variable (User Defined)
Sample Flow Rates	28.3 LPM (1 CFM), or 100 LPM (Requires separate inlet covers for the 28.3 & 100 LPM Sample Rates)
Flow Rate Control	Electronic, Closed-Loop, Mass-Flow Control
Printer (Optional)	Thermal Label or Paper
Control System (CPU)	Microprocessor Controlled (32bit PIC Processor)
Memory	512kb Flash Program , 128kb RAM Data, 1mb Sample Runs, 512kb EPROM Calibration Set Points
Unit Equipment ID/Number	User Defined/Selectable
Battery Operation	~6 Hours at 100 LPM & ~10 Hours at 28.3 LPM / ~2.5 Hour Charge Time
Site Descriptions	User Created/Deleted/Selectable
Program Descriptions	User Created/Deleted/Selectable (Includes: Sample Rate, Volume/Time, Flow/Volume Units, Delay/Test/Hold)
Sample ID	Unique System Generated (Unit Serial # + 5 digit string) / Non-Repeating until >999,999 samples
Input/Output	USB Client 1.1, Ethernet 10BaseT-/100-BaseT
Audible Alarm	Internal (with User Volume Control)
Alarms	Flow Alarm ±5% (On/Off)
AC/DC Power Supply	Input: 100-240 VAC, 50/60 Hz,130VA-168VA 1.4 AMPS / Output: DC 18V 3.6A
Operating Range	5-40º C, 10-80% RH, non-condensing*; Indoor Use; Max Altitude 6560 feet (2000 meters) *Note: As temperature increases from 30 to 40º C, humidity range drops from 80 to 50% linearly.
Calibration/Verification Required	Flow Rate (28.3/1 CFM and/or 100 LPM) / Sample Timer (Frequency: 6-12 Months)
Installation Category/Pollution Degree	Category 1 / 1 & 2

For additional information on all sampling options, please contact EMTEK, or your local area distributor.

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