

BGI PQ100

Portable Ambient Particulate Sampler

PQ100 - Ambient Air Sampler

The PQ100 Provides EPA Reference Method Data for PM₁₀

The BGI PQ100 Sampler is a portable, easy to operate, EPA Federal Reference Method sampler for PM₁₀. The PQ100 includes the design of PM₁₀, PM_{2.5} and PM₁ Inlets, volumetric sample flow rate control, data logging and software for report and data processing.

Applications

- (RFPS-1298-124) Ambient Particulate Monitoring
 - Designated Federal Reference Method (FRM) for PM₁₀
- Fence Line Monitoring
- Remediation Projects
- Remote Site Monitoring
- High Altitude Sampling (with miniPM™ Inlet)
- Suitable for Lead, Asbestos, Oil Mists, Indoor Air Pollutants and Allergens

Features

- 2-25 LPM flow range
- Volumetric Flow Control, using ambient temperature and barometric pressure compensated mass flow sensor
- Dual Diaphragm Vacuum Pump
- Portable and only EPA designated sampler with solar augmentation approval
- Operates up to 24 hours from its internal 12 Volt DC Battery. AC power outages do not effect the sample event; true continuous sampling with no interruptions
- Can be configured for PM₁₀, PM_{2.5}, PM₁ and TSP for low or high altitude
- PQ100 Pump can be used as an IAQ and special study flow controlled vacuum pump



PQ100 Ambient PM₁₀ Sampler



EPA Designated Inlet and miniPM™ High Altitude Inlet



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PQ100 Ordering Information

Part # PQ100PM10:	Portable PM ₁₀ sampling system w/ rigid stand (120 or 240 volts)
Part # PQ100HA	Portable battery-operated high altitude sampling system with rigid stand
Part # PQ-100:	Portable battery-operated pump, w/ charger, cables and software
Part # 3410:	Portable TSP sampling system w/ rigid stand (120 or 240 volts)
Part # VSCCA:	PM _{2.5} In-line Cyclone to convert from PM ₁₀ to PM _{2.5} sampling
Part # 188095:	Solar panel 32 Watt power with cables, hardware and regulator
Part # F215:	Spare 47mm plastic filter holder and metal carrying canister
Part # 5011:	miniPM™ Inlet Complete for TSP, PM ₁ , PM _{2.5} , and PM ₁₀

PQ100 Specifications

Flow Rate Selections:	2 to 20 LPM in 0.01 LPM increments
Flow Rate Accuracy:	0.5% (When calibrated with a deltaCal or tetraCal (formally triCal))
Flow Rate Precision:	1%
Height:	5.3" (13.46cm)
Width:	9.9" (25.15cm)
Depth:	9.7" (24.64cm)
Weight:	19 Lbs. (8.63Kg)
Main Battery:	12V 12Ah Short Circuit Protected
Clock Battery:	3.6V Lithium Cell
Clock Battery Life:	2 Years
Motor Drive:	High Efficiency Pulse Width Modulator
Flow Rate Measurement:	Flow Sensor
Serial Data Signals:	Outputs - 9V Nom. Inputs - 30V Max.
Charging System:	100/250 VAC (50/60 Hz)