

BGI PQ100

Portable Ambient Particulate 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 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
- » 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

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)

PQ100 Ordering Information

Part # PQ100PM10: Portable PM₁₀ sampling system w/ rigid stand (120 or 240 volts)

Part # PQ-100: Portable battery-operated pump, with charger, cables and software

Part # 3410: Portable TSP sampling system with rigid stand (120 or 240 volts)

Part # VSCCA: PM_{2.5} In-line Cyclone to convert from PM₁₀ to PM_{2.5} sampling

Part # 188095: Solar panel 32 Watt power with cables, hardware and regulator