



PC-3500

Handheld Particle Meters



GRAYWOLF®
SENSING SOLUTIONS
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GRAYWOLF
BRANDED

ADVANCED ENVIRONMENTAL INSTRUMENTATION



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Features and Benefits:

- Measures airborne particles 0.3 μm to 25.0 μm
- 0.1 CFM (2.83 LPM) flow rate driven by a high quality internal pump with flow control
- Long life laser diode technology for reliable performance
- Measures up to 6 particle sized channels simultaneously
- Calculates mass concentration in $\mu\text{g}/\text{m}^3$ with density and refractive index corrections, including **PM2.5**, **PM10** and **TPM**
- Alternatively display/log particle counts
- Large easy-to-use icon driven color touch screen display
- Exceptional battery life (10+ hours continuous)
- Stores up to 45,000 records and 1,000 sample locations internally, far broader options when connected to AdvancedSense® or WIN/Android/iOS WolfMobile™ devices
- Annotation function allows user to save 32 character notations to a sample record
- Real-Time Meter for detecting particle contamination sources
- Connect using Serial Comms, Ethernet, USB or optional WolfRadio™ XM (WiFi 802.11 b/g/n, Bluetooth LE)
- Displays and externally prints reports for ISO 14644-1, EU GMP Annex I and FS 209E
- Internal audible and visual alarms
- Optional, direct-connect %RH, °F/°C probe available
- Complies with ISO 21501-4 and JIS B9921 standards
- Seamless integration into a facility monitoring system
- Lightweight high-impact injection molded plastic enclosure with handle for one-handed operation, 1/4"-20 female mount (for tripod, etc.), and built-in stand
- 2 year warranty on instrument, except filters, 1 year on other accessories



Use the PC-3500 as a stand-alone particle meter, plug it into a sophisticated AdvancedSense® system or into a Windows/iOS/Android device for simultaneous connection with GrayWolf's DirectSense® probes.

- Ideal for IAQ investigations, filter efficiency testing, green building certification, cleanroom monitoring, wildfire smoke infiltration surveys, and more.
- The PC-3500 Handheld Particle Meter measures 0.3 μm to 25.0 μm with a flow rate of 0.1 CFM (2.83 LPM) via a precision internal pump with flow control.
- The PC-3500 mass concentration mode calculates density in $\mu\text{g}/\text{m}^3$ and allows for PM 0.5, PM 1.0, PM 2.5, PM 5.0, PM 10, and TPM simultaneously, plus optional °F/°C and %RH.
- The PC-3500 meters can be controlled and monitored remotely via web browser.
- Export data to (included) GrayWolf WolfSense® PC data-download software or view data and generate ISO 14644-1, EU GMP Annex I or FS 209E reports on screen or in real time through the versatile PC-3500 output options.
- The PC-3500 meets ISO 21501-4 and JIS B9921, ensuring compliance with an on-board pulse height analyzer.



PC-3500

Handheld Particle Meters

Size Range	0.3 to 25 μ m
Size Channels	Factory calibrated at 0.3, 0.5, 1.0, 2.5, 5.0, 10.0 μ m variable binning
Flow rate	0.1 CFM (2.83 LPM)
Concentration Limit	15,000,000 Particles/ft ³ @ 10% coincidence loss (per ISO 21501-4) 30,000,000 Particles/ft ³ @ 10% coincidence loss (as tested by mfr.)
Aerosol Concentration Range	0.01 to 20,000 μ g/m ³
Battery Run Time	10+ hours continuous operation, typical
Light Source	Long life laser diode
Counting Efficiency	50% @ 0.3 μ m; 100% for particles >0.45 μ m per JIS
Zero Count	<1 count / 60 minutes (<1 particles / 6 ft ³), no fault count subtraction
Count Modes	Mass concentration (PM) or particles/second, real-time meter, cumulative/differential (count/m ³ and count/ft ³)
Count Alarms	1 to 9,999,999 counts
Calibration	NIST traceable
Display	4.3" (10.9 cm) WVQGA (480x272) color touch screen
Vacuum Source	Internal pump with automatic flow control
Filtered Exhaust	Internal HEPA filter
Number of Channels	6
Custom Size Channels	Calibration for custom size channels available
Audible Alarm	Adjustable integrated alarm
Battery	Removable Li-ion
Battery Recharge Time	4 hours within instrument (<2 hours with external battery charger)
Reports	ISO 14644-1, EU GMP Annex 1, FS 209E
Communication Modes	RS232, RS485, Ethernet and USB
Optional Comms Mode	WiFi 802.11 b/g/n, Bluetooth LE via WolfRadio-XM-3500
Environmental Sensor	Optional temperature and relative humidity probe 32° to 122°F ±1°F (0° to 50°C ±0.5°C), 15-90% ±2% relative humidity
Alarm	Alarms on counts for all particle sizes, low battery, sensor failure, and flow rate
Standards	ISO 21501-4 and JIS B9921
Calibration	Recommended minimum once per year
External Surface	High impact injection molded plastic
Dimensions (L x W x H)	5.12 x 4.25 x 12.25" (13 x 10.8 x 31.0 cm) includes handle but excludes probes
Weight	2.2 lb (1.0 kg)
Included Accessories	PCC-GW3500 hard-shell carrying case, quick start guide, operating manual on USB flash drive, isokinetic probe, purge filter, battery, belt clip, WolfSense PC data download software, USB cable, and power supply
Optional Accessories	PCC-35P security case, printed manual, TRH probe, AdvancedSense connection cable, spare battery, spare external battery charger, barbed fittings, and tubing
Buffer Memory	45,000 sample records (rotating buffer) including particle count data, environmental data, locations and timestamp. Scrollable on screen or post-download
Sample Locations	Up to 1,000 locations 20 characters long
Sample Time	1 second to 99 hours
Power	110 to 240 VAC 50/60 Hz universal in-line power supply
Operating Conditions	41° to 104°F (5° to 40°C) / 20% to 95% non-condensing
Storage Conditions	32° to 122°F (0° to 50°C) / Up to 98% non-condensing
Warranty	2 years limited warranty on instrument, 1 year on accessories, no warranty on filters

GrayWolf Sensing Solutions reserves the right to change specifications without notice.



✓ MEASURE SMART

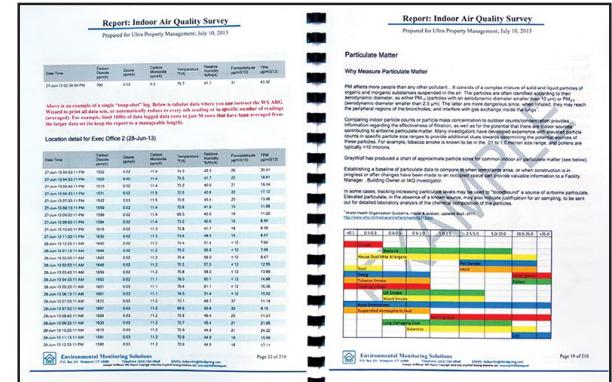
✓ REPORT EFFICIENTLY



The PC-3500 can connect with GrayWolf's DirectSense® XM probes to AdvancedSense XM meters (as well as other platforms) to combine 6-channel particle readings with up to dozens of other parameters into a single displayed and data-logged file.



►
Example
WolfSense
ARG report
(optional
automated
report
generation
software)



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