Model 3510 & 3510-2

Remote Airborne Particle Counters

Features

- 3510: Measures 0.5 µm to 5.0 µm (up to 4 size channels)
- 3510-2: Measures 0.5 µm to 5.0 µm (up to 2 size channels)
- 1.0 CFM (28.3 LPM) flow rate
- Long life laser diode technology
- Measures up to 4 channels of simultaneous data
- Particle concentrations up to 1,500,000 Particles/ft³ @ 10% coincidence loss
- Internal critical orifice
- Connect using Modbus RTU/ASCII over isolated RS-485
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean and wipe down with minimal particle traps
- Versatile mounting options
- User configurable alarm light
- LED Indicators
- Seamless integration into a facility monitoring system
- Lightweight stainless steel enclosure

The Setra 3510 and 3510-2 particle counters provide a range of particle size measurement from 0.5 to 5.0 µm at a flow rate of 1.0 CFM (28.3 LPM). These sensors allow for efficient particle counting with specifications that exceed the ISO 31501-4 and JIS B9921 calibration standards.

These sensors have both 4 and 2 fixed particle size channels and are equipped with an integral critical oriface and flow sensor to provide a stable flow rate from an external vacuum source.Integration into a building automation or facility monitoring system is easy via isolated RS-485 Modbus communication.
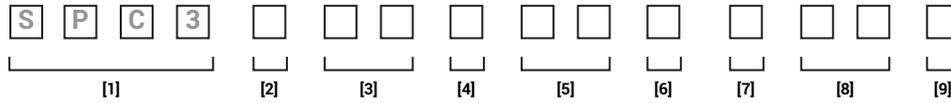
Specifications

Model	3510	3510-2
Size Range	0.5 to 5.0 µm	0.5 to 5.0 µm
Size Channels	Factory calibrated at 0.5, 1.0, 2.5, 5.0 µm	Factory calibrated at 0.5, 5.0 µm
Number of Channels	4	2
Counting Efficiency	50% @ 0.5µm; 100% for particles > 0.75 µm per JIS	
Flow Rate	1.0 CFM (28.3 LPM)	
Concentration Limits	1,500,000 Particles/ft³ @ 10% coincidence loss	
Light Source	Long life laser diode	
Zero Count	< 1 count /15 minutes (< 1 particles /15ft³)	
Calibration	NIST traceable	
Vacuum Requirements	External vacuum > 15" (38.1cm) of Hg	
Airflow	Internally monitored	
Alarm	User configurable alarm light	
Communication Modes	MODBUS™ RTU or ASCII outputs (over isolated RS-485)	
Standards	ISO 21501-4 and JIS B9921	
Instrument Calibration	Recommended minimum once per year	
External Surface	Stainless steel	
Dimensions (L x W x H)	3.59" x 1.83" x 5.01" (9.1 cm x 4.6 cm x 12.7 cm) including probes and connectors	
Weight	1.65 lb. (0.75 kg)	
Accessories	Wiring Connector, operating manual on USB flash drive	
Optional Accessories	Power Supply, Remote Mounting Bracket, Stainless Steel Barbed Isoprobe (1.0 CFM/28.3 LPM), Purge Filter Assembly, and Sample & Vacuum Tubing	
Sample Time	1 second to 18 hours	
Power	9 - 24 VDC (< 2.5 watts)	
Operating Conditions	41º to 104ºF (5º to 40ºC) / 20% to 95% non-condensing	
Storage Conditions	32º to 122ºF (0º to 50ºC) / Up to 98% non-condensing	
Warranty	2 year limited warranty. Extended warranties available	

USA Made
RoHS
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800.257.3872 | www.setra.com

Ordering information

Example part number: SPC3-5-10-2-M3-N-W-NN-S

S	P	C	3													
[1]				[2]	[3]		[4]	[5]		[6]		[7]	[8]		[9]	

[1] Model	[2] Minimum Particle Size	[3] CFM	[4] Channels	[5] Connectivity	[6] Pump	[7] Mount Type	[8] Onboard Sensor	[9] Warranty
SPC3 SPC 3000	**5** 0.5 Micron	**10** 1.0 CFM	**2** 2 Channel **4** 4 Channel	**M3** Modbus over RS-48	**N** No Pump	**W** Wallmount	**NN** None	**S** Standard

Dimensions

INLET (0.25" BARB)
ALARM LIGHT
VACUUM PORT (0.25" BARB)
POWER/RS-485
5.01" 3.39"
3.59"
1.83"