HCTM CO., LTD.

AirSens Pro

100nm Particle Meter

The AirSens Pro can be used continuously to monitor particles in real-time across a wide range. It can measure particle sizes from 0.1㎛ to 5.0㎛. The LCD display and included software enable real-time monitoring both on-site and at remote locations. Additionally, AirSens Pro comes in two options. Remote is a stationary configuration that operates with an external pump, while With Pump & Battery is a portable model with an internal pump and battery for use on the move.

The AirSens Pro offers three types of channel configurations (4CH, 6CH, and 8CH) to meet various requirements. Up to 12CH (optional) can be configured upon request. When used with our HPD-01(High Pressure Diffusers), it can operate under positive pressure (35~75 psi).

Remote



nPS – 0401 / 0601 / 0801

with Pump & Battery



nPS – 0401PN /0601PN / 0801PN

Features

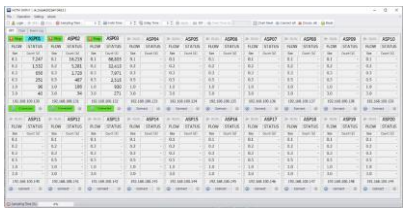
- Size range from 0.1 ㎛ to 5.0 ㎛
- Channel configurations : 4CH, 6CH, 8CH
- 90° Light scattering method
- Complies with all requirements of ISO 21501-4
- 0.1 CFM (2.83 L/min) flow rate
- 1.7" & 3.2" LCD Display for Real-time Monitoring

Applications

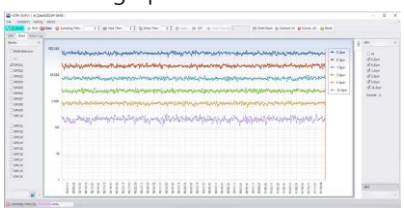
- Particle trend analysis
- Clean room and Facility monitoring
- Real time particle monitoring
- Non-toxic, non-flammable high-pressure gas solutions

Monitoring Program

- Particle concentration



- Data chart graph



AirSens Pro : 100nm Particle Meter

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Specifications

Model`	Remote	with Pump
	nPS - 0401 **nPS - 0601** **nPS - 0801**	**nPS - 0401PN** **nPS - 0601PN** **nPS - 0801PN**
Particle channel Size & resolution	0401 / 0401PN : 4CH - 0.1, 0.2, 0.3, 0.5 ㎛	
	0601 / 0601PN : 6CH - 0.1, 0.2, 0.3, 0.5, 1.0, 3.0 ㎛	
	0801 / 0801PN : 8CH - 0.1, 0.2, 0.3, 0.5, 1.0, 2.0, 3.0, 5.0 ㎛	
Counting efficiency	50 % at 0.1 ㎛ (per ISO-21501-4 & JIS 9921B)	
Consentration limits	14,500,000 particles/ft^3 @ 10% coincidence loss	
Zero count level	≤ 7 counts/㎥ (per ISO-21501-4 & JIS 9921B : ≤ 7 counts/㎥)	
Flow rate	0.1 CFM (2.83 L/min)	
Sampling time	1 sec ~ 24 hrs (User selectable)	
Display	3.2 " LCD touch screen display	
Vaccum source	External vacuum source (> 15.7 in.Hg)	Internal Pump
Battery	Not Included	Li-Ion Battery (up to 2hr)
Light source	Laser diode	
In / Outlet fitting	1/4" Tube type (Option : 1/4" VCR male connector)	
Communication Modes	Ethernet (TCP/IP, Modbus TCP)	
Dimension (LWH)	20.3 x 6.9 x 12.9 cm (7.99 x 2.72 x 5.08 in)	21.3 x 10.1 x 19.9 cm (8.39 x 3.98 x 7.83 in)
Weight	1.10 kg (2.40 lb)	2.05 kg (4.52 lb)
Power	Adapter (100 ~ 240 V, 50/60 Hz Output: 12 VDC, 5.0 A)	Adapter (100 ~ 240 V, 50/60 Hz Output: 19 VDC, 6.3 A)
Enclosure	Alloy	
Environmental Sensors	Direct mount temperature & relative humidity probe (Option)	
Operational Environment	10 ~ 30 ℃, 1 ~ 95 %RH, Non condensing	
Warranty	1 year	1 year

- **ACCESSORIES** Adapter / Purge Filter / Single-host Monitoring program
- **OPTIONAL ACCESSORIES** 12 channel configuration / In & outlet 1/4" VCR male connector (stainless steel) / Isokinetic sampling Probe / Direct mount temperature & relative humidity probe / Multi-location Monitoring program / HPD-01(High Pressure Diffuser)

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