

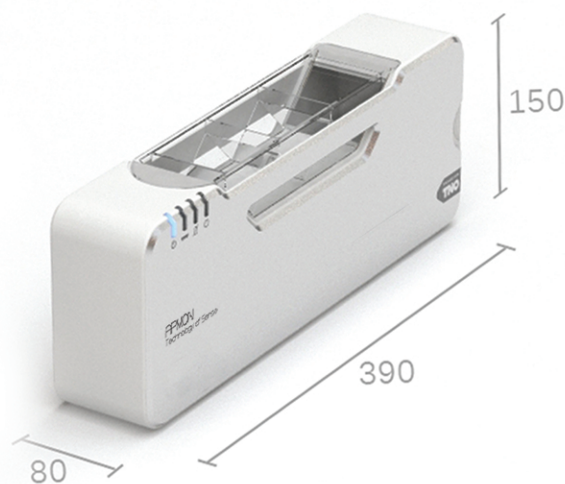
Technical Specifications

Sensor detects, measures particles, deposition rate and events.

Detectable particle sizes	$\geq 15 \mu\text{m}$ $\leq 1000 \mu\text{m}$
Measuring surface	25 cm ²
PDR	99% Confidence interval $\pm 6\%$ (long term)
Sample time	5 minutes per sensor
Size	390 x 80 x 150 mm (15.4 x 3.1 x 5.9 inches)
Weight	Approximately 5 kg (incl. battery)
Power	Dual: adapter 100-240V AC / 9V DC 550mA or battery 7.2V / 7.8Ah
Battery type	Lithium Ion Smart battery, rechargeable inside base unit. Flight certificate
Battery quantity included	Two per sensor
Battery operating time	> 5 days
Communication base unit	Bluetooth 2.0 $\approx 15\text{-}20\text{m}$ field, depending on local situation or Ethernet
Optical light source	20mA Laser Diode 406nm
Method	Holographic imaging
Laser safety classification	1m according to IEC60825-1
Calibration	Production approved, once a year
Packaging	In controlled environment

Base Unit

Sensor



Base Unit collects and analyses data and charges batteries

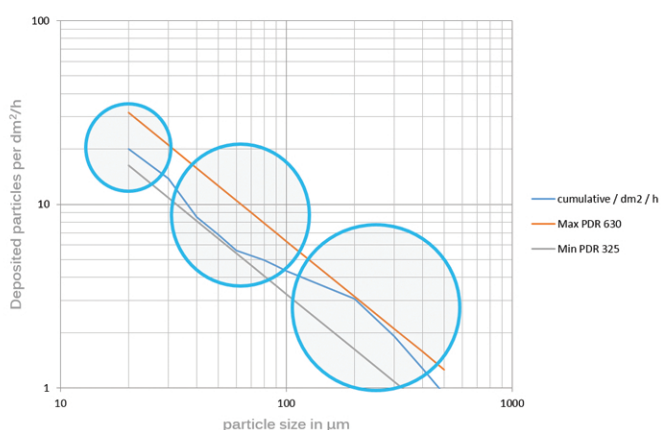
Size	275 x 275 x 165 mm (10.8 x 10.8 x 6.4 inches)
Weight	Approximately 4 kg (with batteries recharging: 5 kg)
Coincidence loss	< 1%
Data storage	minimal 10 years of measurement data
Power	Adapter 100-240V AC 2A / 19V DC
Cooling	Passive
Outputs	Ethernet cable UTP / RJ45
Battery recharge	3 batteries per base unit at the same time
Battery recharge time	10 hours typical
Maximum number of sensors	Ethernet 6 Bluetooth 2

Technical Specifications

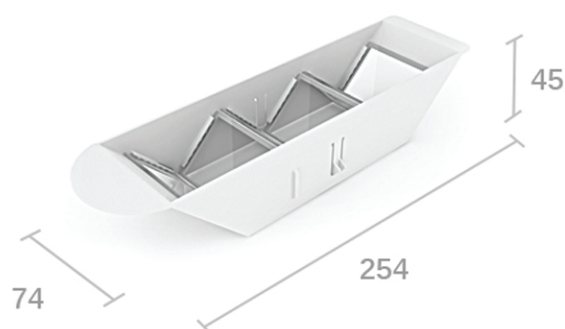
User Interface v 1.0

Tailor made	Adjustable for every situation and requirements
Size channels	15, 30, 40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000
Communication	Automatic report when pc receives data Use of Ethernet: approach from distance possible
Communication protocol	Optional
Backup	USB drive
Languages	English, Dutch, Chinese, optional different languages
System requirements	Windows XP, Windows 7 or higher
Reports	Alarm date/time, pdr, pac, ppm Events 1 year overview

Cumulative Particle Size Distribution



Disposable Witness Cartridge



Disposable Witness Cartridge

Material	Combination plastic and glass
Type	Disposable
Duration in use	Maximum of 120 days depending on condition cleanroom
Size	254 x 74 x 45 mm (10.0 x 10.0 x 1.7 inches)
Packaging	Packed in two bags in a controlled environment
Replacement of disposable	Warning by software

General

Remote access	Yes
Alarm	Sample time plus 2 minutes
Environment (operating)	10 to 35 degrees Celsius (50 to 95 degrees Fahrenheit) 10 to 90% relative humidity, non-condensing
Enclosure material	Easy to clean: aluminum and plastics (80% ethanol or IPA cleaning possible)
In the box	Main articles: 1 sensor, 1 base unit, 2 rechargeable sensor batteries, 1 cartridge, 1 user software, user guide, sensor- and remote access cable, power adapter
Warranty	See warranty certificate
ISO	As intended in ISO 14644-3 B.11.2.2. and ISO 14644-9
Patent	Patent pending