



**Prochista**  
Smart Technology

# Particle Sensor

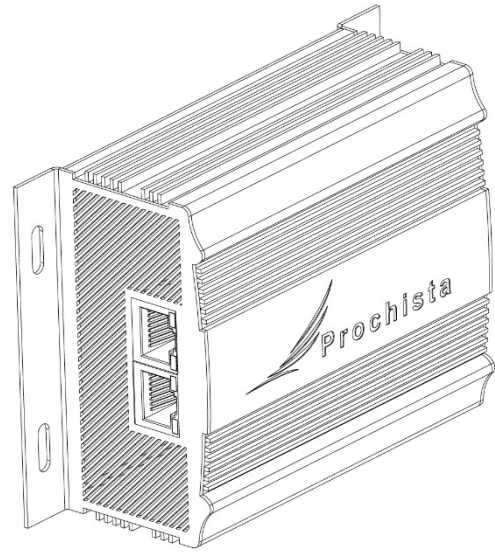
(Ethernet)

Part No. PCT-EH05DPA0110

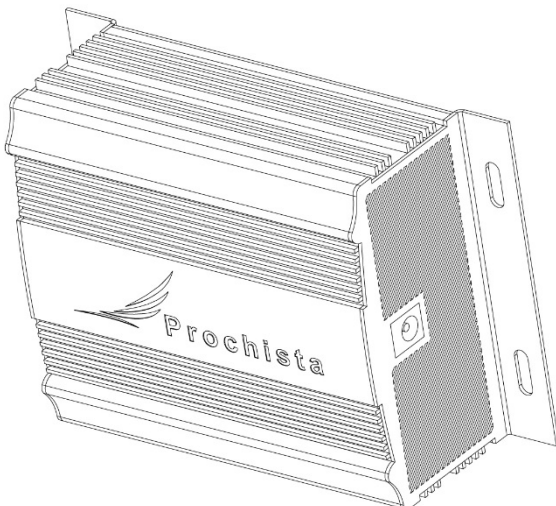
Document No. 940105110-1/2

This sensor enables your monitoring system to monitor a location for the presence or dust and other particulates larger than one micro meter.

Using SNMP this sensor can be integrated with many different tools such as Schneider, Emerson, Prochista DCM, IO, Nlyte, iTracs, HP OpenView, IBM Tivoli, CA, BMC, Modius, MRTG, Cacti, Nagios, Zenoss, ManageEngine, Ipswitch WhatsUp, Paessler PRTG, Solarwinds & more ...



- The unit has a built-in web server that you can access to configure, read sensor data, and define alerts.
- The unit can operate with PoE power supply for easy installation. Also you can use external 48VDC power supply if you don't have PoE enabled switch on the site.
- 2 internally bridged LAN interfaces for ring network configuration (without using network switch).
- Built in calibrated air flow system which provide accurate particle measuring.
- Design for wall mounted and rack mounted installation.



## Installation

To function properly, the unit must be oriented upward (upward direction marked on enclosure). The sensor should not be placed near a fan or other source of artificial air flow. Because the concentration of particulates is greatest close to the floor, for best results the unit should be placed on or close to the floor.

## Specifications

Electrical	
External Input voltage	48 VDC ( $\pm 10\%$ )
Input current	Max 33 mA
Power consumption	Max 1.6 W
Network	
Protocol support	HTTP, SNMP v1,SNMP v2, SNMP v3, SNMP Trap, DHCP, DNS, ICMP
LAN Interfaces	2 x 10/100 Mbps (Internally bridged)
Power over Ethernet (PoE)	IEEE 802.3af
Max cable length	depending on cable quality up to 100m
Sensor	
Minimum detectable particle size	approx. $1 \mu m$
Detectable range of concentration	$0 - 1.4 mg/m^3$
Startup time	1 min
Sensor type	Optical
Sensor accuracy	To be maintained in between the upper limit and lower limit of the standard dust sensor unit
Environmental conditions	
Operation Temperature Range	$0^{\circ}C - 65^{\circ}C$
Operation Humidity Range	95%RH or less (without dew condensation)
Recommended Storage Temperature	$-20^{\circ}C - 85^{\circ}C$

## Configuration

For configuring the unit simply login into unit's webpage, by default the unit boots in static IP mode. The unit's default IP is "172.16.0.1", default Username is "admin" and default Password is "prochista".

**Note:** For reloading default settings, hold the reset button on power up for at least 3 seconds (reset button is located behind the unit)

## Mechanical Dimension

