Compact Particulate PM10 Monitor CPM10

SKU: CPM10

Doc No: CPM10-DS-EN-10

Introduction

CPM10 is a compact Dust monitor to help measuring particulate matter PM10 in realtime. Data will be sent back to cloudGlobiots for storage or forwarding to 3rd-party software / platform. The device is designed for outdoor applications. The sampling air will be controlled by temperature and humidity to have the highest accuracy and longest life of operation. It is fully automatic air sampling, automatic cleaning and zeroing allow the package can run continuously in 02 years without maintenance.

- Robust design for outdoor application;
- Temperature & Humidity control;
- Automatic cleaning;
- Automatic zeroing;
- Automatic alert when unit need maintenance;
- Cellular connectivity to server;
- Remote management, data storage and data forwarding via cloud portal;

Typical Applications

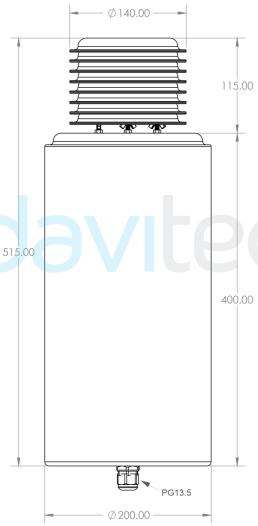
- Dust Monitor for Environment Monitor in City, Urban areas;
- Dust Monitor used by Environmental consultants, EHS managers, Researchers, etc. who want to collect accurate, scientifically robust data without the cost of a reference PM monitor

COMPACT PARTICULATE PM10 MONITOR
CPM10



CPM10-H1.PNG

DIMENSION DRAWING OF CPM10 SENSOR
(Unit: mm)



CPM10-H2.PNG

Specification

SENSOR SPECIFICATION	
Particulate Matter measurement	PM10
Measuring range	0..3000 ug/m3

Linearity	15% of reading
Repeatability	1 ug/m3
Resolution	0.1 ug/m3
Working atmospheric pressure	101.3 Kpa +/- 10%
Humidity and Temperature measurement	Digital type, factory calibrated
Humidity measuring range & accuracy	0 .. 100 %RH, +/- 1.5%
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40 .. + 85 oC, +/- 0.1 oC
Temperature resolution	0.1 oC
Radiation shield for Humidity & Temperature sensor	Yes
Working temperature	-10 .. + 60 oC
Working humidity	15 .. 90% RH
CONNECTIVITY SPECIFICATION	
Cellular	3G-Dual band (2100/900)
Host communication supports	TCP/IP, UDP/IP, FTP, HTTPS, SNMP...
Vietnam Type Approval Certification	QCVN 54:2011/BTTTT, QCVN 15:2015/BTTTT (DAVITEQ B00122019)
Antenna	Internal antenna
Power supply	7..48VDC, avg. 200mA, peak 1.5A
Back-up battery	Lithium Super Capacitor
On-board memory & sensors	2MB Flash, PCB temperature sensor
Electrical connectors	PG13.5 cable gland of M20x1.5 female thread conduit
SIM slot	01 x micro-SIM (cellular versions only)
Housing/Protection	Aluminum + UV rated plastic / IP65
Dimension	D200xL600
Net weight	< 4 kgs

Ordering Code

Item code	**Descriptions**
CPM10-3G-01	COMPACT PARTICULATE PM10 MONITOR, 3G DUAL BAND CONNECTIVITY, WITHOUT DISPLAY, 7-48VDC SUPPLY, INCLUDED TEMPERATURE & HUMIDITY MEASUREMENT

⚠ Link for full datasheet:

⚠ Link for manual:

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