PM2.5 Air Quality Kit -



PM2.5 is a pollution sensor base with affordable price and high performance. Integrated with PMSA003 and SHT20, makes it possible to measure the ambient quality of air, temperature, and humility all at one device.

Much discussion and research have taken place within academic and government environmental organizations as to how accurate such sensors are and whether they have a place in the enforcing of environmental regulation or even providing an indication of air quality trends to citizens.

With MSStack product series, the system makes it much easier to deploy the measurement node all around the city and make it possible to build a complete ecosystem from regulation enforcement to citizen indication.

With regards to PMSA003, it is a digital universal particulate concentration sensor designed by using the principle of laser scattering method. It is capable of continuous acquisition and computing the number of suspended particular in per unit volume which is also the particulate concentration distribution. Then turn it into mass concentration and output through digital (DPIO.

Precise measurement implemented by laser scattering method.

Digital empte, standard UARTcommiscation

0 error salarm rate
real-time response
continuous acquaintoe
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Tiny body, 12 mm good for portable and wearable device

SHT20 is a Humidity and temperature sensor IC.

Fully calibrated Digital output, DC interface Low power consumption The excellent long term stability





Product Feature

DUSY
Compatible with M5stack stackable and extension system.
M5Core pedental (Pin our SPI/DC-Poner)
Proto board
USBType-c port

Package Includes

1x PM2.5 base 1x M5Stack Basic

Ix M5Core pedestal Ix Type-c cable 2x M3 screw

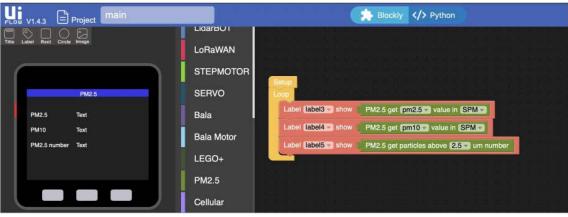
EasyLoader

EasyLoader是一个微语供述的程序保受器。其内置了一个产品很关的案例程序,通过简单步骤将其保录至主控。即可进行一系列的功能验证(程序结录前,请根据设备类型安装相应驱动程序,MSCore型主机简点击止处查看CP2IOX驱动安装数据。 MSStickC/VT/ATOM系列可含驱动技術)

Datasheet

PMSA003

UlFlow



Schematic