

Get Free Application Note Of Sharp Dust Sensor Gp2y1010au0f

## Application Note Of Sharp Dust Sensor Gp2y1010au0f

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## **GP2Y1010AU0F Application Note - Electronicos Caldas**

GP2Y1030AU0F is one of the newer models in Sharp's lineup of PM (particulate matter) dust sensors. Designed for use in commercial air purifiers, GP2Y1030AU0F is a digital UART sensor featuring a built-in microcomputer (MCU) with the ability to output particle counts for different ranges of dust sizes.

## **Application Guide for Sharp GP2Y1030AU0F Dust Sensor**

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The figure below from Sharp's application note (section 6-1) shows an example circuit. The application note further indicates

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(see below figure) that the LED should be pulsed on once every 10ms , using a pulse duration or width of 0.32ms .

### **Application Guide for Sharp GP2Y1014AU0F Dust Sensor**

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### **Application Note Of Sharp Dust Sensor Gp2y1010au0f**

Sharp dust sensors operate on the principle of light scattering. A photo-detector and LED emitter oppose each other at an angle within the rectangular package of the sensor which has a dust through hole on either side. Air containing dust particles flows into the sensor chamber and causes the light from...

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## **Application Guide for Sharp GP2Y1026AU0F Dust Sensor**

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Text: GP2Y1010AU0F Application note of Sharp dust sensor GP2Y1010AU0F Contents 1. Outline of this , application note of Sharp dust sensor GP2Y1010AU0F is a document consists from Explanation how to use , .

## **dust sensor datasheet & applicatoin notes - Datasheet Archive**

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Except where specially indicated, models listed on this page comply with the RoHS Directive\*. For details, please contact SHARP.

## **Dust Sensor Unit: Product Lineup: SHARP Electronic**

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## **Components**

While a light vacuum can be used to remove large dust pieces which may be attached inside the sensor, your application design may preclude such kind of maintenance access to the sensor. 6. Sharp GP2Y1026AU0F uses the same type of 6-pin connector as the GP2Y1010AU0F model.

## **Application Guide forSharp GP2Y1026AU0F Dust Sensor**

This is Application Note of dust sensor module (GP2Y1020AU0F) is a document consists from explanation how to use, cautions when using it, characteristics data for the customer's reference when applying this device. When designing the device, please refer to this document and also evaluate it under actual usage conditions.

## **Dust sensor GP2Y1010AU0F Application Notes**

[Application Note] Dust Sensor Unit GP2Y1010AU0F • Oct. 28

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[Newproduct] SHARP's CCD/DSP/CMOS for Security & Automotive Cameras : iSHartina TM • Oct. 22 [Application Note] Distance Measuring Sensor GP2Y0E02A/GP2Y0E02B/GP2Y0E03 • Oct. 3 [Datasheet]

## **What's New : Electronic Components - Sharp Corporation**

This is Application Note of dust sensor module (GP2Y1020AU0F) is a document consists from explanation how to use, cautions when using it, characteristics data for the customer's reference when applying this device. When designing the device, please refer to this document and also evaluate it under actual usage conditions.

## **Dust sensor GP2Y1014AU0F Application Notes**

On the Sharp, this is the pulse for the concentration is based on the frequency of the signal. For the analog output a multimeter will suffice, and some multimeters can also measure frequency

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from a digital output... Building a whole 'scope' just to test some analog/digital...

### **Dust Sensor (1.4) | MySensors Forum**

Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device. GP2Y1010AU0F is a dust sensor by optical sensing system. An infrared emitting diode (IRED) and an phototransistor are diagonally arranged into this device. It detects the reflected light of dust in air.

### **GP2Y1010AU0F Compact Optical Dust Sensor**

That's really a question for Sharp. As it says all over that datasheet, contact them to clarify specs / design requirements / etc. some dust sensors use resistor heating elements and creates a negative pressure inside the chamber to direct the air into the sensor chamber



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### **I'm using SHARP GP2Y1010AU0F Dust sensor for my DIY**

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Sharp have produced a detailed datasheet for the sensor, together with a rather useful application note. You will need: Arduino Uno or equivalent (e.g. the SparkFun RedBoard - product ID: DEV-12757) Sharp GP2Y1010AU0F optical dust sensor (SparkFun ID: COM-09689) 6-Way JST ZHR-6 connector housing (SparkFun ID: PRT-09690)

### **GitHub - PaulZC/GP2Y1010AU0F\_Dust\_Sensor: Hook-up guide ...**

Introduction The Sharp Optical Dust Sensor (GP2Y1010AU0F) is especially effective in detecting very fine particles like cigarette smoke, and is commonly used in air purifier systems. An infrared emitting diode and a phototransistor are diagonally arranged into this device, to allow it to detect the reflected light of dust in air.

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## **Sharp\_GP2Y1010AU-DFRobot**

- Arduino Ethernet Shield 2 - Sharp Dust Sensor GP2Y1010AU0F  
- 220 uF Capacitor, 150  $\Omega$  Resistor, breadboard, some jumper cables. The dust sensor worked on the Arduino. The Arduino can fetch datas (raw signal values) like what you posted, which ranges from 200~350 in an office room.

## **Standalone: Sharp Dust Sensor ← Arduino Tutorials**

The wearable wireless dust density system was assembled as follows and is depicted in Fig. 1. First, the Sharp optical dust sensor was integrated with a custom circuit and power module for onboard sensing (see Fig. 2 for a schematic of the system's circuit). It was then integrated with a temperature and humidity module for subsequent real ...

## **Temperature and Humidity Calibration of a Low-Cost ...**

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Hook-up guide for the Sharp GP2Y1010AU0F Optical Dust Sensor  
- PaulZC/GP2Y1010AU0F\_Dust\_Sensor

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