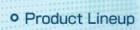
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Dust Sensor PDF(314KB)

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Distance Measuring Sensors (1) PSD, 2PD Type

Distance Measuring Sensors (2) **CMOS** type

Dust Sensor Unit

- *IR Detecting Units for Remote Control
- LEDs
- * Laser Diodes
- * RF Components
- * <u>Sensor</u>

Dust Sensor Unit

	,	Under development
Output	Features	Model No.
Analog output	Pulse analog output, single-shot detection of house dust, general purpose	<u>GP2Y1010AU0F</u>
	Pulse analog output, single-shot detection of house dust, high sensitivity	GP2Y1012AU0F
Digital output	Digital (PWM) output, built-in microprocessor controller, single-shot detection of house dust, high sensitivity	GP2Y1023AU0F
	Digital (UART) output, built-in microprocessor controller, sensing can discriminate between PM2.5 and PM10, internal cleaning possible	★GP2Y1030AU0F

(Ta = 25°C)

RoHS

	Features	Topr (°C)	Operating supply voltage (V)	Electro-optical characteristics		
Model No.				Dissipation current (mA)	Detection concentration μg/m ³ (TYP.)	Output
GP2Y1010AU0F Datasheet Application Note	*Built-in infrared emitting diode, photodiode and signal processing circuit *Compact, single-shot detection of house dust *Output: Analog voltage		4.5 to 5.5	TYP. 11	0 to 600	Analog voltage
GP2Y1012AU0F	High sensitivity Built-in infrared emitting diode, photodiode and signal processing circuit Compact, single-shot detection of house dust Output: Analog voltage		4.5 to 5.5	TYP. 11	0 to 240	Analog voltage
GP2Y1023AU0F	High sensitivity Built-in microcomputer Built-in infrared emitting diode, photodiode and signal processing circuit Compact, single-shot detection of house dust Output: Digital signal output (PWM)	-10 to +65	4.75 to 5.25	TYP. 15	0 to 240	Digital signal (PWM) Temperature correction Averaging
★GP2Y1030AU0F	Built-in infrared emitting diode, photodiode and signal processing circuit Built-in microcomputer Sensing can discriminate between PM2.5 and PM10 Internal cleaning possible		3 to 5.5	TYP. 25	0 to 500	Digital signal (UART)



GP2Y1010AU0F (GP2Y1012AU0F, GP2Y1023AU0F)



GP2Y1030AU0F

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

*RoHS Directive:Prohibits use of lead, cadmium, hexavalent chromium, mercury and specific brominated flame retardants (PBBs and PBDEs), with certain

Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.



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