

SKU	Product	MSRP	IC Manufacture	Sensor /IC	Measurable Range	Response time	Interface	Operating Voltage
101020037	Grove – Touch Sensor	\$3.90	Tonkex	TTP223-BA6	/	60 - 220ms	Digital	3.3/5V
101020069	Grove - Q Touch Sensor	\$11.90	Atmel	AT42QT1070	/	8ms	I2C	3.3/5V
101020047	Grove - I2C Touch Sensor	\$9.90	Freescale Semiconductor	MPR121	/	/	I2C	3.3/5V
101020534	Grove - 12 Key Capacitive I2C Touch Sensor V2 (MPR121)	\$6.95	Freescale Semiconductor	MPR121	10 pF to over 2000 pF	/	I2C	3.3/5V
101020552	Grove - Capacitive Touch Slide Sensor (CY8C4014LQJ)	\$6.95	Cypress Semiconductor	CY8C4014LQJ	5 pF to 45 pF	90-110ns	I2C	3.3/5V
101020553	Grove - Round Force Sensor (FSR402)	\$12.90	Interlink Electronics	FSR402	0.2N–20N	<3 µs	Analog	3.3/5V
101020027	Grove - Electricity Sensor	\$5.90	YHDC	TA12-200	up to 5A	/	Analog	3.3/5V
101020046	Grove - Hall Sensor	\$5.90	Allegro Microsystems	A1101	/	/	Digital	3.3/5V
101020593	Grove - Coulomb Counter 3.3V to 5V (LTC2941)	\$9.90	Linear Technology	LTC2941	n ±50mV	/	I2C	3.3/5V
101020652	Grove - 2.5A DC Current Sensor(ACS70331)	\$7.95	Allegro Microsystems	ACS70331	0 – 2.5A	<550 ns	Analog	3.3/5V
101020615	Grove - 15A DC/AC Current Sensor (ACS70331)	\$4.95	Allegro Microsystems	ACS70331	0 – 5A	<550 ns	Analog	3.3/5V
101020616	Grove - 10A DC Current Sensor (ACS725)	\$9.95	Allegro Microsystems	ACS725	0 – 10A	/	Analog	3.3/5V
101020013	Grove - RTC	\$6.90	Dallas Semiconductor	DS1307	/	/	I2C	3.3/5V
102020083	Grove - High Precision RTC	\$8.59	PHILIPS	PCF85063TP	/	/	I2C	3.3/5V
101020172	Grove - Line Finder v1.1	\$3.90	TI	LMV358ID	/	/	Digital	5V
101020587	Grove - Optical Rotary Encoder(TCUT1600X01)	\$8.90	Vishay Semiconductors	TCUT1600X01	/	/	Digital	3.3/5V
101020713	Grove - Capacitive Fingerprint Scanner/Sensor	\$24.90	/	KCT203	/	/	UART	3.3/5V
114020142	Grove - Thermal Imaging Camera / IR Array MLX90640 110 degree	\$45.00	Melexis	MLX90640	Temperature measurement range:-40°C~300°C	/	I2C	3.3/5V

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SKU	Product	MSRP	IC Manufacture	Sensor/ IC	Parameter	Measurable Range	Sensitivity/ Resolution	Interface	Output	Interface	Operating Voltage	Working Temperature	Note	
10102009	Grove - 3-Axis Digital Accelerometer(+5g)	\$9.90	NXP	MMA7660FC	Acceleration	+1g	21LSB/g	I2C	Digital	I2C	3.3/5V	-40°C to +85°C	Excellent EMI protection	
10102054	Grove - 3-Axis Digital Accelerometer(+16g)	\$9.90	ADI	ADXL345		+16g	3.9mg/LSB	I2C	Digital	I2C	3.3/5V	-40°C to +85°C		
101020582	Grove - 3-Axis Digital Accelerometer +16g Ultra-low Power (BMA400)	\$8.90	BOSCH	BMA400		+2g +4g +8g	1024LSB/g 512LSB/g 256LSB/g	I2C	Digital	I2C	3.3/5V	-40°C to +85°C		
101020639	Grove - 3-Axis Digital Accelerometer +40g (ADXL357)	\$79.50	ADI	ADXL357		+10g +20g +40g	51200LSB/g 25600LSB/g 12800LSB/g	I2C	Digital	I2C	3.3/5V	-40°C to +125°C		
101020632	Grove - 3-Axis Digital Accelerometer ±200g (ADXL372)	\$24.50	ADI	ADXL372		±200g @each axis	±50mg/LSB (Nominal Operation) ±35mg/LSB (Low Noise Mode)	I2C	Digital	I2C	3.3/5V	-40°C to +125°C		
101020071	Grove - 3-Axis Digital Accelerometer(+400g)	\$19.90	ST	H3LIS331DL		+100g +200g +400g	50mg/digit 100mg/digit 200mg/digit	I2C	Digital	I2C	3.3/5V	-40°C to +85°C		
101020637	Grove - 3-Axis Analog Accelerometer +20g (ADXL356B)	\$69.50	ADI	ADXL356B		+10g +20g	51200LSB/g 25600LSB/g	I2C	Analog	I2C	3.3/5V	-40°C to +125°C		
101020638	Grove - 3-Axis Analog Accelerometer +80g (ADXL356C)	\$69.50	ADI	ADXL356C		+10g +40g	51200LSB/g 12800LSB/g	I2C	Analog	I2C	3.3/5V	-40°C to +125°C		
101020672	Grove - 6-Axis Digital Accelerometer&Gyroscope +50g (ADIS16470)	\$299.00	ADI	ADIS16470		Acceleration Angular Rate	+40g @each axis ±2000°/sec	16-bit format: 800LSB/g 32-bit format: 52,428,800LSB/g Sensitivity: 20mV/g Linearity: ±0.1% of full scale range Cross Axis Sensitivity: ±1%Z/YX cross axis	I2C	Digital	I2C	3.3/5V		-10°C to +75°C
101020633	Grove - Single Axis Analog Accelerometer ±100g (ADXL1001)	\$78.90	ADI	ADXL1001		Acceleration	+100g	Linearly: ±1%Z/YX cross axis	Analog	Analog	Analog	3.3/5V		-40°C to +125°C
101020050	Grove - 3-Axis Digital Gyro	\$14.90	InvenSense	ITG 3200	Angular Rate	+2000°/sec	14 LSBs per °/sec	I2C	Digital	I2C	3.3/5V	-40°C to +85°C	Acceleration: 10,000g for 0.3ms	
101020492	Grove - 3-Axis Digital Compass V2	\$7.90	BOSCH	BMM150	Magnetic	±1300μT(x, y-axis) ±2500μT(z-axis)	0.3μT	I2C / SPI	Digital	I2C	3.3/5V	-40°C to +85°C		
105020012	Grove - 6-Axis Accelerometer&Gyroscope	\$9.90	ST	LSM6DS3	Acceleration Angular Rate	+2g +4g +8g +16g ±125dps ±245dps ±500dps ±1000dps ±2000dps	0.061mg/LSB 0.122mg/LSB 0.244mg/LSB 0.488mg/LSB 4.375 8.75 17.50 35 70	I2C	Digital	I2C	3.3/5V	-40°C to +85°C		
101020594	Grove - 6-Axis Accelerometer&Gyroscope (BMI088)	\$13.90	BOSCH	BMI088	Acceleration Angular Rate	+3g +6g +12g +24g ±125dps ±250dps ±500dps ±1000dps ±2000dps	10920LSB/g 5460LSB/g 2730LSB/g 1365LSB/g 262.1LSB/dps 131.1LSB/dps 65.5LSB/dps 32.8LSB/dps 16.4LSB/dps	I2C	Digital	I2C	3.3/5V	-40°C to +85°C		
101020081	Grove - 6-Axis Accelerometer&Compass v2.0	\$19.90	ST	LSM303D	Acceleration Magnetic	+2g +4g +6g +8g +16g ±2gauss ±4gauss ±8gauss ±12gauss	0.061mg/LSB 0.122mg/LSB 0.183mg/LSB 0.244mg/LSB 0.732mg/LSB 0.08mgauss/LSB 0.16mgauss/LSB 0.32mgauss/LSB 0.48mgauss/LSB	I2C / SPI	Digital	I2C	5V	-40°C to +85°C		
101020080	Grove - IMU 9DOF v2.0	\$12.90	InvenSense	MPU9250	Acceleration Angular Rate Magnetic	+2g +4g +8g +16g ±250dps ±500dps ±1000dps ±2000dps ±4800μT	16384LSB/g 8192LSB/g 4096LSB/g 2048LSB/g 131LSB/dps 65.5LSB/dps 32.8LSB/dps 16.4LSB/dps 0.6μT/LSB	I2C / SPI	Digital	I2C	5V	-40°C to +85°C		
101020585	Grove - IMU 9DOF (ICM20600-AK09918)	\$9.90	AKM (AsahiKASEI)	AK09918	Magnetic	±4912μT	0.15μT/LSB	I2C	Digital	I2C	3.3/5V	-30°C to +85°C		
101020252	Grove - IMU 10DOF v2.0	\$16.90	InvenSense	MPU9250	Acceleration Angular Rate Magnetic	+2g +4g +8g +16g ±250dps ±500dps ±1000dps ±2000dps ±4800μT	16384LSB/g 8192LSB/g 4096LSB/g 2048LSB/g 131LSB/dps 65.5LSB/dps 32.8LSB/dps 16.4LSB/dps 0.6μT/LSB	I2C / SPI	Digital	I2C	5V	-40°C to +85°C		
101020583	Grove - Step Counter (BMA456)	\$6.90	BOSCH	BMA456	Barometer	300 ~ 1100hPa(+9000m ~ -500m relating to sea level)	±1hPa	I2C	Digital	I2C	3.3/5V	-40°C to +85°C	Ultra-low power	
101020083	Grove - Gesture (PAJ7620U2)	\$9.90	PhxArt Imaging Inc.	PAJ7620U2	Acceleration	±2g	16384LSB/g	I2C	Digital	I2C	5V	-40°C to +85°C		
101020020	Grove - PIR Motion Sensor	\$7.90	Torex	XC6206P332MR-G	Angular Rate	0.1 ~ 6m	/	GPIO	Digital	Digital	3.3/5V	-40°C to +85°C	Ambient light immunity: < 100k Lux	
101020617	Grove - Adjustable PIR Motion Sensor	\$7.90	Nysenba	S16-L221D	Angular Rate	0 ~ 3m	120-530μV	GPIO	Digital	Digital	3.3/5V	-30°C ~ 70°C		
101020353	Grove - mini PIR motion sensor	\$4.90	Nysenba	S16-L221D	Angular Rate	0 ~ 2m	120-530μV	GPIO	Digital	Digital	3.3/5V	-30°C ~ 85°C		
101020554	Grove - Human Presence Sensor (AK9751)	\$16.95	AKM	AK9751	Magnetic	<3m	/	I2C	Digital	I2C	3.3/5V	-20°C to +85°C		
101020005	Grove - Collision Sensor	\$8.90	Sensolute	MVS0608	Angular Rate	/	/	GPIO	Digital	Digital	3.3/5V	-20°C to +70°C	修改wiki, 供电问题	
101020586	Grove - Vibration Sensor (SW-420)	\$2.50	/	SW-420	Angular Rate	/	/	GPIO	Digital	Digital	3.3/5V	-20°C to +70°C	修改wiki, 供电问题	
101020051	Grove - Piezo Vibration Sensor	\$5.90	Measurement	LDT0-028	Angular Rate	/	/	GPIO	Digital	Digital	3.3/5V	0°C to 85°C		
114020121	Grove - 3-Axis Digital Accelerometer (LIS3DHTR)	\$3.90	ST	LIS3DHTR	Acceleration	+2g +4g +8g +16g	/	I2C SPI ADC	Digital SPI ADC	I2C SPI ADC	3.3/5V	-40°C to +85°C		

SKU	Product	MSRP	IC Manufacture	Sensor/ IC	Measurable Range	Resolution(cm)	Interface	Operating Voltage
101020010	Grove - Ultrasonic Distance Sensor	\$3.90	Maxim Integrated	MAX232ESE+	3~350cm/ 30°	1cm	Digital	3.3/5V
101020174	Grove - Infrared Reflective Sensor v1.2	\$4.90	Rohm	RPR-220	0.4~1.5cm	/	Digital	3.3/5V
101020175	Grove - IR Distance Interrupter v1.2	\$5.90	Everlight	ITR9909	9~30cm	/	Digital	5V
101020533	Grove - Digital Distance Interrupter 0.5 to 5cm(GP2Y0D805Z0F)	\$7.45	SHARP	GP2Y0D805Z0F	0.5~5cm	/	Digital	3.3/5V
101020578	Grove - Digital Distance Interrupter 0.5 to 5cm(GP2Y0D805Z0F)(P)		SHARP	GP2Y0D805Z0F		/	Digital	
101020532	Grove - Time of Flight Distance Sensor(VL53L0X)	\$12.95	ST	VL53L0X	3~100cm	0.1cm	I2C	3.3/5V
101020042	Grove - 80cm Infrared Proximity Sensor	\$13.90	SHARP	GP2Y0A21YK	10~80cm	/	Analog	2.5~7V
114991434	Grove - TF Mini LIDAR	\$39.95	Benewake	TFmini	30~1200cm/2.3°	1cm	UART	4.5~6V
101020580	Grove - Light&Gesture&Color&Proximity Sensor (TMG39931)	\$14.90	ams	TMG39931	0 - 60kx	/	I2C	3.3/5V
101020692	Grove - 12-bit Magnetic Rotary Position Sensor / Encoder (AS5600)	\$5.90	ams	AS5600	0.5 - 3 mm typ.	12-bit	I2C	3.3/5V
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109020021	Grove - Doppler Radar (BGT24LTR11)	\$59.90	安普盛	BGT24LTR11	10m	/	UART	3.3/5V
101020793	Grove - Digital PIR Motion Sensor	\$3.90	Torex	XC6206P332MR-G	3.2m-12m	/	Grove	3.3/5V

SKU	Product	MSRP	IC Manufacture	Sensor /IC	Operating Voltage	Interface	Measurable Range	Accuracy / Sensitivity
Temp/Humi/Pressure Sensors								
101020015	Grove - Temperature Sensor	\$2.90	NTC Thermistors	NCP18WF104F03RC	3.3/5V	Analog	-40 to 125°C	±1.5°C
111020002	Grove - High Temperature Sensor	\$13.90	THINKING ELECTRONIC INDUSTRIAL Co.	TTC3A103	3.3/5V	Analog	-50 to 600°C	±2.0% (+ 2 °C)
101020556	Grove - I2C High Accuracy Temperature Sensor(MCP9808)	\$4.75	Microchip	MCP9808	3.3/5V	I2C	-40°C to +125°C	+0.25 (typical) from -40°C to +125°C ±0.5°C (maximum) from -20°C to 100°C ±1°C (maximum) from -40°C to +125°C
101020011	Grove - Temp&Humi Sensor(DHT11)	\$5.90	AOSONG	DHT11	3.3/5V	Digital	Temp - 0 ~ 50 °C Humi - 20% - 90% RH	Temp - ±2°C Humi - ±5%
101020212	Grove - Temp&Humi Sensor(SHT31)	\$11.90	Sensirion	SHT31	3.3/5V	I2C	Temp - 40°C to 125°C Humi - 0% - 100% RH	Temp - ±0.3°C Humi - ±2%
101020074	Grove - Temperature&Humidity Sensor(High-Accuracy & Mini)	\$11.50	Hoperf	TH02	3.3/5V	I2C	Temp - 0 to 70 °C Humi - 0% to 80% RH	Temp - ±0.5°C Humi - ±4.5%
101020019	Grove - Temperature&Humidity Sensor Pro (AM2302)	\$14.90	AOSONG	AM2302	3.3/5V	Digital	Temp - 40°C to 80°C Humi - 5% to 99% RH	Temp - ±0.5°C Humi - ±2%
101020592	Grove - I2C High Accuracy Temp&Humi Sensor (SHT35)	\$13.90	Sensirion	SHT35	3.3/5V	I2C	Temp - 40°C to +125°C Humi - 0 to 100% RH	Temp - ±0.1 °C Humi - ±1.5 %RH
101020062	Grove - Infrared Temperature Sensor	\$9.90	THERMOPILE	OTP-538U	3.3/5V	Analog	-10 to 100°C	±2°C
101020077	Grove - Digital Infrared Temperature Sensor	\$9.00	Melexis	MLX90615	3.3/5V	Digital	-40 to 115°C	±1°C
101020557	Grove - Infrared Temperature Sensor Array (AMG8833)	\$39.50	Panasonic	AMG8833	3.3/5V	I2C	0 °C to 80 °C	±2.5 °C
101020192	Grove - Barometer Sensor(BMP280)	\$8.90	BOSCH	BMP280	3.3/5V	I2C	Temp : -40 to 85°C Baro: 300 - 1100 hPa	Temp - ±1°C Baro - ±1.0hPa
101020068	Grove - Barometer (High-Accuracy)	\$19.90	Hoperf	HP206C	3.3/5V	I2C	300 - 1200 hPa	±0.01hPa
101020193	Grove - Temp&Humi&Barometer Sensor(BME280)	\$17.00	BOSCH	BME280	3.3/5V	I2C	Temp : -40 to 85 °C Humi : 0 to 100% RH Baro: 300 - 1100 hPa	Temp - ±1°C Humi - ±3% Baro - ±1.0hPa
101020634	Grove - CO2 & Temperature & Humidity Sensor (SCD30)	\$59.95	Sensirion	SCD30	3.3/5V	I2C	Temp - 40°C to 120°C Humi - 0 to 100% RH Gas - 0 to 40'000 ppm	Temp - ±0.5°C Humi - ±2 %RH Gas - ± (30 ppm + 3%)
101020513	Grove - Temperature, Humidity, Pressure and Gas Sensor (BME680)	\$20.50	BOSCH	BME680	3.3/5V	I2C	Temp - 40 to 85°C Humi - 0 to 100% RH Baro - 300-1100hPa	Temp ± 1°C (0-65°C.) Humi - ± 3%r.H. (20-80 %r.H., 25°C) Baro - ± 0.6 hPa (300-1100 hPa, 0-65°C)
101020555	Grove - 1-Wire Thermocouple Amplifier (MAX31850K)	\$13.95	Maxim Integrated	MAX31850K	3.3/5V	I2C	-270°C to +1768°C	± 2°C
101020594	Grove - I2C Thermocouple Amplifier (MCP9600)	\$16.90	Microchip	MCP9600	3.3/5V	I2C	-50°C to +600°C	±1.5°C (Max.)

Gas Sensors

SKU	Product	Price	IC Manufacture	IC / Sensor	Operating Voltage (V)	Interface	Range	Accuracy / Sensitivity
101020055	Grove - Gas Sensor (MQ2)	\$6.90	HANWEI	MQ-2	5V	Analog	LPG and propane: 200ppm-5000ppm Butane: 300ppm-5000ppm Methane: 5000ppm-20000ppm H2: 300ppm-5000ppm Alcohol: 100ppm-200ppm	NA
101020045	Grove - Gas Sensor (MQ9)	\$7.50	HANWEI	MQ-9	5V	Analog	Carbon monoxide: 20-2000ppm CH4: 500-10000ppm LPG: 500-10000ppm	NA
101020044	Grove - Alcohol Sensor	\$7.90	HANWEI	MQ303A	5V	Analog	20-1000ppm Alcohol	NA
101020056	Grove - Gas Sensor (MQ5)	\$7.90	HANWEI	MQ-5	5V	Analog	200-10000ppm	NA
101020006	Grove - Gas Sensor (MQ3)	\$9.90	HANWEI	MQ-3	5V	Analog	Alcohol: 0.05-10mg/L	NA
101020001	Grove - HCHO Sensor	\$14.90	WINSEN	WSP2110	3.3/5V	Analog	1~50ppm	NA
101020512	Grove - VOC and eCO2 Gas Sensor (SGP30)	\$15.90	Sensirion	SGP30	3.3/5V	I2C	VOC: 0 ppb to 6000ppb CO2: 400 ppm to 6000 ppm	VOC: (0-2008ppb/1ppb, 2008-11110ppb/6ppb, 11110-60000ppb/32ppb) CO2: (400-1479ppm/1ppm, 1479-5144ppm/3ppm, 5144-17597ppm/9ppm, 17597-60000ppm/31ppm)
101020088	Grove - Multichannel Gas Sensor	\$39.90	SGX	MIC-6814	3.3/5V	I2C	CO: 1-1000ppm NO2: 0.05-10ppm H2: 10-500ppm C2H5OH: 1-1000ppm NH3: 1-500ppm CH4: >1000ppm C3H8: >1000ppm C4H10: >1000ppm	NA
101020067	Grove - Carbon Dioxide Sensor(MH-Z16)	\$89.00	WINSEN	MH-Z16	3.3/5V	UART	0-2000 parts per million (PPM)	200 PPM
101020002	Grove - Oxygen Sensor(ME2-O2-Φ20)	\$54.90	WINSEN	ME2-O2-Φ20	3.3/5V	Analog	0-25%	0.05~0.15 mA(in air)

Environmental Sensors

SKU	Product	Price	IC Manufacture	IC / Sensor	Operating Voltage (V)	Interface	Range	Accuracy / Sensitivity
101020008	Grove - Moisture Sensor	\$2.99	JCST	S9013	3.3/5V	Analog	Sensor in dry soil: 0 - 300 Sensor in humid soil: 300 - 700 Sensor in water: 700 - 950	/
101020614	Grove - Capacitive Moisture Sensor (Corrosion Resistant)	\$5.95	TI	NE555DR	3.3/5V	Analog	/	/
101020018	Grove - Water Sensor	\$2.90	YAGEO	RC0603JR	3.3/5V	Digital	/	/
101020012	Grove - Dust Sensor (PPD42NS)	\$11.50	SHINYEI	PPD42NS	5V	Digital	0~28,000 / 0 ~ 8000 pcs/liter / pcs/0.01cf	/
101020078	Grove - Air quality sensor v1.3	\$9.90	Winsen Electronics	MP503	3.3/5V	Analog	10~1000ppm(Alcohol)	Concentration: 1µg/ m3 Counting concentration: 1s/0.1L
101020613	Grove - Laser PM2.5 Sensor (HM3301)	\$29.90	Huaman Electronics	HM3301	3.3/5V	I2C	1~500µg/ m3 (Effective range) 1000 µg/ m3 (Maximum range)	/
101020023	Grove - Sound Sensor	\$4.90	Texas Instruments	LM386	3.3/5V	Analog	/	52 - 48 dB
101020063	Grove - Loudness Sensor	\$5.90	Texas Instruments	LM2904	3.3/5V	Analog	/	-48 - 66 dB
101020312	Grove - Heeligh Sensor	\$7.90	/	/	3.3/5V	Digital	0.1-10m	/
101020232	Grove - Speech Recognizer	\$19.50	Sheng Qun	SQ09745CD	3.3/5V	Digital	/	-43dB to -37dB
101020132	Grove - Light Sensor v1.2	\$2.90	Senba Optoelectronic	LS06-S	3.3/5V	Analog	/	/
101020173	Grove - Light Sensor (PI) v1.1	\$2.90	Senba Optoelectronic	LS06-S	3.3/5V	Analog	/	/
101020030	Grove - Digital Light Sensor	\$9.90	TAOS	TSL2561	3.3/5V	I2C	0.1 - 40,000 LUX	/
101020076	Grove - Luminance Sensor	\$5.90	Avago Technologies	APDS-9002	3.3/5V	Analog	0 ~ 1000 LUX	/
101020089	Grove - Sunlight Sensor	\$9.90	Silicon Labs	SI1145	3.3/5V	I2C	1 to 128 kLUX	< 1 µW/cm2
101020043	Grove - UV Sensor	\$9.90	GENICOM	GUVA-S12SD	3.3/5V	Analog	200nm-400nm	/
101020600	Grove - I2C UV Sensor (VEML6070)	\$5.45	Vishay Semiconductors	VEML6070	3.3/5V	I2C	320-410nm	5 µW/cm2/step(typical)
101020041	Grove - I2C Color Sensor V2	\$7.90	ams	TCS34725FN	3.3/5V	I2C	/	/
101020049	Grove - Flame Sensor	\$6.90	/	YG1006	5V	Digital	760nm - 1100 nm / Detection range - 0-1m	/
101020812	Grove - High Precision Barometric Pressure Sensor (DPS310)	\$5.90	Infineon Technologies	DPS310	3.3/5V	I2C/SPI	Pressure range: 300 ~ 1200 hPa	± 0.06 hPa (or ±0.5 m)
110020248	Grove - Integrated Pressure Sensor Kit (MPX5700AP)	\$32.25	NXP	MPX5700AP	3.3/5V	I2C/SPI	0° to 85°C	2.5% Maximum Error

Water Sensors

SKU	Product	Price	IC Manufacture	IC / Sensor	Operating Voltage (V)	Interface	Range	Accuracy / Sensitivity
101020635	Grove - Water Level Sensor (10CM) for Arduino	\$6.95	Mircocchip	ATTINY1616	3.3/5V	I2C	10cm	5mm
101020753	Grove - TDS Sensor/Meter For Water Quality (Total Dissolved Solids)	\$11.90	TI	LMV324	3.3/5V	Analog	0-1000ppm	0.1ppm
101020752	Grove - Turbidity Sensor (Meter) for Arduino V1.0	\$21.90	TI	LMV358	3.3/5V	Analog/Digital	0-5V	0.1V

SKU	Product	MSRP	IC Manufacture	Sensor /IC	Operating Voltage	Interface	Measurable Range	Accuracy / Sensitivity
110020292	Grove - EC Sensor Kit (DJS-1C-Black)	\$29.90	TI	TPS60400DBVR	3.3V/5V	BNC/Analog	0-2000us/cm	±5%(STP)
110020291	Grove - PH Sensor Kit (E-201C-Blue)	\$15.90	Torex	XC6206P182MR	3.3V/5V	BNC/Analog	0-14PH	±0.15PH (STP) ±8mv/24
110020293	Grove - ORP Sensor Kit (501Z)	\$39.90	TI	LM2664M6/NOPB	3.3V/5V	BNC/Analog	5°C-70°C Carbon monoxide CO 1 – 1000ppm Nitrogen dioxide NO2 0.05 – 10ppm Ethanol C2H6OH 10 – 500ppm Hydrogen H2 1 – 1000ppm Ammonia NH3 1 – 500ppm Methane CH4 >1000ppm Propane C3H8 >1000ppm Iso-butane C4H10 >1000ppm	
101020820	Grove - Multichannel Gas Sensor v2	\$34.90	ST	STM32F030F4P6TR	3.3V/5V	I2C		
101020635	Grove - Water Level Sensor (10CM)	\$6.95	Microchip	ATtiny1616-MNR	3.3V/5V	I2C	-40°C to 105°C	±5mm
101020752	Grove - Turbidity Sensor	\$21.90	TI	LMV358ID	3.3V/5V	Analog/Digital	/	/
101020753	Grove - TDS Sensor	\$11.90	TI	CD4060BM	3.3V/5V	Analog	0 – 1000ppm	/
101020812	Grove - High Precision Barometer Sensor (DPS310)	\$5.90	infineon	DPS310	3.3V/5V	I2C/SPI	300 –1200 hPa	± 0.002 hPa (or ±0.02 m)
110020248	Grove - Integrated Pressure Sensor Kit (MPX5700AP)	\$32.25	HEXIN	HX4002	3.3V/5V	Analog	15Kpa-700Kpa	2.50%

SKU	Product	MSRP	Rated Load	Input Current	IC Manufacture	Sensor / IC	Operate time	Release time	Interface	Operating Voltage
103020005	Grove - Relay	\$2.90	5V@250VAC 5A@30VDC	100mA	NINGBO HELISHUN ELECTRON CO	HLS8L-DC3V-S-C	10ms Max.	5ms Max.	Digital	3.3/5V
103020012	Grove - SPDT Relay(30A)	\$9.90	30A@250VAC 30A@30VDC	185mA	Songle Relay	SLA-05VDC-SL-C	15ms Max.	10ms Max.	Digital	5V
103020132	Grove - 2 - Channel SPDT Relay	\$6.90	10A@250VAC 10A@30VDC	90mA	Songle Relay	SLA-05VDC-SL-C	10ms Max.	5ms Max.	Digital	5V
103020133	Grove - 4 - Channel SPDT Relay	\$9.90	10A@250VAC 10A@30VDC	90mA	Songle Relay	SLA-05VDC-SL-C	10ms Max.	5ms Max.	I2C	5V
103020004	Grove - Solid State Relay	\$24.90	4A@220VAC	16mA Min. 20mA Typ. 50mA Max.	SHARP	S208T02	10ms	10ms	Digital	3.3/5V
103020137	Grove - Solid State Relay V2	\$14.90	2A@100VAC to 240VAC	/	Omron	G3MC-202P	1/2 of load power source cycle +1 ms max	1/2 of load power source cycle + 1 ms max	Digital	5V
103020134	Grove - 2 - Channel Solid State Relay	\$24.90	2A@100VAC to 240VAC	/	Omron	G3MC-202P	1/2 of load power source cycle +1 ms max	1/2 of load power source cycle + 1 ms max	Digital	4-6V
103020135	Grove - 4 - Channel Solid State Relay	\$44.90	2A@100VAC to 240VAC	/	Omron	G3MC-202P	1/2 of load power source cycle +1 ms max	1/2 of load power source cycle + 1 ms max	I2C	4-6V
103020136	Grove - 8 - Channel Solid State Relay	\$79.90	2A@100VAC to 240VAC	/	Omron	G3MC-202P	1/2 of load power source cycle +1 ms max	1/2 of load power source cycle + 1 ms max	I2C	4-6V
103020010	Grove - 2 - Coil Latching Relay	\$6.90	1A@125VAC 3A@30VDC	/	HongFa Relay	HFD2/005-S-L2-D	4.5ms Max.	3.5ms Max.	Digital	5V
101020603	Grove - Optocoupler Relay (M281)	\$5.95	60V	/	SOLID STATE OPTRONICS	M281	1.4 ms (TYP.) 5 ms (Max.)	0.2 ms(TYP.) 2 ms(Max.)	Digital	3.3/5V

SKU	Product	Price	Chip	Size	fonts	Interface	Operating Voltage
104030001	Grove - LCD RGB Backlight	\$11.9	JHD1313 FP	16*2	en/jp	I2C	3.3/5V
104020113	Grove - 16 x 2 LCD (Black on Yellow)	\$5.95	JHD1804 Y/YG	16*2	en/jp	I2C	3.3/5V
104020112	Grove - 16 x 2 LCD (Black on Red)	\$5.95	JHD1803 Y/R	16*2	en/jp	I2C	3.3/5V
104020111	Grove - 16 x 2 LCD (White on Blue)	\$5.95	JHD1802 B/W	16*2	en/jp	I2C	3.3/5V
104030005	Grove - Red LED	\$1.9	LED-2.54-5MM	/	/	Digital	3.3/5V
104030007	Grove - Green LED	\$1.9	G5020C	/	/	Digital	3.3/5V
104030010	Grove - Blue LED	\$1.9	504WC	/	/	Digital	3.3/5V
104030009	Grove - White LED	\$1.9	504WC	/	/	Digital	3.3/5V
104030014	Grove - Multi Color Flash LED (5mm)	\$1.9	FZR50FT5G0T	/	/	Digital	3.3/5V
101020472	Grove - Variable Color LED V1.1	\$3.9	SN74LVC1G07DCKR	/	/	Digital	3.3/5V
104030013	Grove - Circular LED	\$9.9	MY9221SS	24 LEDs	/	Digital	4.5/5.5V
104020005	Grove - LED String Light	\$14.5	AIC1896	/	/	Digital	3.3/5V
104020048	Grove - Chainable RGB LED v2.0	\$5.99	P9813S14	/	/	Digital	5V
104020006	Grove - LED Bar v2.0	\$3.9	MY9221	10	/	Digital	3.3/5V
104020128	Grove - RGB LED Ring (20 - WS2813 Mini)	\$9.9	WS2813	20	/	Digital	3.3/5V
104020131	Grove - RGB LED Stick (10 - WS2813 Mini)	\$4.9	WS2813	10	/	Digital	3.3/5V
105020013	Grove - LED Matrix Driver v1.0	\$8.5	STM32F103C8T6	Support 32 x 64	/	UART	3.3/5V
104020089	Grove - Red LED Matrix w/Driver	\$7.95	HT16K33	64	/	I2C	3.3/5V
105020073	Grove - RGB LED Matrix w/Driver	\$14.9	HT16K33	64	/	I2C	5V
104020109	Grove - WS2813 RGB LED Strip Waterproof - 60 LED/m - 1m	\$8.95	WS2813	60	/	Digital	5V
104020110	Grove - WS2813 RGB LED Strip Waterproof - 144 LED/m - 1m	\$8.95	WS2813	144	/	Digital	5V
104020108	Grove - WS2813 RGB LED Strip Waterproof - 30 LED/m - 1m	\$5.95	WS2813	30	/	Digital	5V
104030008	Grove - OLED Display 0.96"	\$14.9	SSD1308	128*64 pixels	/	I2C	3.3/5V
101020452	Grove - OLED Display 1.12" V2	\$14.9	SSD1308	128*128 pixels	/	I2C	3.3/5V
104020129	Grove - Triple Color E-Ink Display 1.54"	\$17.95	STM32	152*152 pixels	/	UART	5V
104020130	Grove - Triple Color E-Ink Display 2.13"	\$19.9	STM32	212*104 pixels	/	UART	5V
104030003	Grove - 4-Digit Display	\$5.9	TM1637	/	/	Digital	5V
104020132	Grove - 0.54" Red Dual Alphanumeric Display	\$6.25	HT16K33	14-segment	/	I2C	5V
104020133	Grove - 0.54" Red Quad Alphanumeric Display	\$6.95	HT16K33	14-segment	/	I2C	5V
104020171	Grove - RGB LED Ring (16-WS2813 Mini)	\$6.90	WS2813	/	/	Digital	3.3/5V
104020168	Grove - RGB LED Ring (24-WS2813 Mini)	\$10.49	WS2813	/	/	Digital	3.3/5V
104020173	Grove - Ultimate RGB LED Ring	\$18.90	WS2813	/	/	Digital	3.3/5V
104020169	Grove - RGB LED Ring (WS2813 Mini)	\$10.49	WS2813	/	/	Digital	3.3/5V
104020172	Grove - RGB LED Stick (15-WS2813 Mini)	\$5.90	WS2813	/	/	Digital	3.3/5V
104020170	Grove - RGB LED Stick (20-WS2813 Mini)	\$7.90	WS2813	/	/	Digital	3.3/5V

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104020228	Grove - LED Pack	\$2.09	S9013	4LEDs	/	Digital	5V
104020208	Grove - OLED Display 0.96" (SSD1315)	\$3.90	SSD1315	128x64 pixels	/	I2C	3.3V/5V
104020170	Grove - RGB LED Stick (20-WS2813 Mini)	\$7.90	20-WS2813 Mini	256*256*256full-color display	/	Digital	3.3V/5V
104020169	Grove - RGB LED (WS2813 Mini)	\$3.99	WS2813 Mini	256*256*256full-color display	/	Digital	3.3V/5V
104020172	Grove - RGB LED Stick (15-WS2813 Mini)	\$5.90	WS2813	256*256*256full-color display	/	Digital	3.3V/5V
104020168	Grove - RGB LED Ring (24-WS2813 Mini)	\$10.49	WS2813	256*256*256full-color display	/	Digital	3.3V/5V
104020173	Grove - Ultimate RGB LED Ring	\$18.90	WS2813B-Mini	256*256*256full-color display	/	Digital	3.3V/5V
104020171	Grove - RGB LED Ring (16-WS2813 Mini)	\$6.90	WS2813	256*256*256full-color display	/	Digital	3.3V/5V

SKU	Product	Price	Chip	Interface	Operating Voltage	Measurable Range
101020004	Grove – Switch(P)	\$2.9	/	Digital	3.3/5V	/
101020025	Grove - Tilt Switch	\$2.9	/	Digital	3.3/5V	/
111020043	Grove – 6-Position DIP Switch	\$3.9	/	I2C	3.3/5V	/
111020048	Grove - 5-Way Switch	\$4.45	/	I2C	3.3/5V	/
101020003	Grove – Button	\$1.9	/	Digital	3.3/5V	/
111020000	Grove – Button(P)	\$1.9	/	Digital	3.3/5V	/
111020049	Grove – Mech Keycap	\$3.9	/	Digital	3.3/5V	/
111020044	Grove – Red LED Button	\$2.45	/	Digital	3.3/5V	/
111020045	Grove – Yellow LED Button	\$2.45	/	Digital	3.3/5V	/
111020046	Grove – Blue LED Button	\$2.45	/	Digital	3.3/5V	/
101020036	Grove – Slide Potentiometer	\$5.9	/	Analog	3.3/5V	/
101020017	Grove - Rotary Angle Sensor	\$2.9	/	Digital	5V	300 degrees
101020048	Grove - Rotary Angle Sensor(P)	\$2.9	/	Analog	5V	300 degrees
111020001	Grove - Encoder	\$4.9	/	Analog	4.5-5.5V	360 degrees
103020030	Grove – Mouse Encoder	\$5.9	/	Analog	3.3-5.5V	1000rad/min
101020028	Grove - Thumb Joystick	\$5.9	/	Analog	3.3-5V	360 degrees
101020038	Grove - Magnetic Switch	\$2.9	CT10(Dry Reed)	Digital	3.3-5V	/
101020091	Grove - Mini Track ball	\$16.9	STM32F103C8T6 & AN48841B	I2C	3.3-5V	Hall Effect: 0.5 ~ 8 mT
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101020852	Grove - Analog Microphone	\$6.90	MEMS	Analog	3.3V	/
107020007	Grove -Recorder v2.0	\$5.00	ISD1820PY	Digital	3.3-5V	/
111020103	Grove - Dual Button	\$2.20	/	Digital	3.3-5V	/
101020692	Grove - 12-bit Magnetic Rotary Positic	\$5.90	AS5600	I2C	3.3-5V	18° up to 360°

SKU	Product	Price	IC Manufacture	Sensor / IC	Operating Current	Interface	Operating Voltage	Sound output	Operating Frequency	Max Power
107020000	Grove - Buzzer	\$1.9	JCST	S9013(Transistor)	/	Digital	3.3-5V	>=85dB	2300+-300Hz	/
107020001	Grove - Speaker	\$6.9	TI	LM386	/	Digital	4-5.5V	/	20Khz	/
107020029	Grove - Recorder v3.0	\$15.5	NT	ISD9160FI	@3.3V, Recording: 25-30mA @5V, Recording:29-35mA	Digital	3.3/5V	/	/	/
101020073	Grove - Electromagnet	\$8.9	YQZY Electronics	ZYE1-P20	Working: 400mA Standby: 200uA	Digital	3.3/5V	/	/	/
101020090	Grove - Water Atomization v1.0	\$9.9	ETA	ETA1617&NE555	/	Digital	5V	/	105+-5KHz	2W
107020008	Grove - MP3 v2.0	\$9.9	Qianle Micro Electronics	KT403A	<40mA	UART	5V	90dB Max	Sampling rate at: 8/11.025/12/16/22.05/24/32/44.1/48 (KHz)	/
105020001	Grove - I2C Motor Driver	\$16.9	Atmel	L298	Max: 2A@each	I2C	6V-15V	/	/	/
108020103	Grove - I2C Motor Driver(TB6612FNG)	\$6.5	Toshiba	TB6612FNG	/	I2C	2.5V-13.5V	/	/	/
105020010	Grove - I2C Mini Motor Driver	\$10.9	Texas Instruments	DRV8830	0.2-1A@each	I2C	2.75V-6.8V	/	/	/
108020102	Grove - 16-Channel PWM Driver(PC9685)	\$9.95	NXP	PCA9685	Ground Supply Current: 400mA	I2C	3.3/5V	/	/	/
105020005	Grove - EL Driver	\$9.95	SX	SX1301	300mA max	Digital	3.3/5V	/	8-20KHz	/
105020011	Grove - Haptic Motor	\$17.9	Texas Instruments	DRV2605L	/	I2C	3.3/5V	/	100KHz	759mW
105020003	Grove - Vibration Motor	\$2.9	JCST	S9013	/	Digital	3.3/5V	/	/	/
108020021	Grove - Mini Fan v1.1	\$8.00	AVR	Atmega168	/	Digital	5V	/	/	/
101020599	Grove - 2-Channel Inductive Sensor (LDC1612)	\$14.95	Texas Instruments	LDC1612	/	I2C	3.3/5V	/	/	/
103020016	Grove - Differential Amplifier	\$14.9	Texas Instruments	INA25	/	Analog	2.7-5.5V	/	/	/
104020000	Grove - Voltage Divider	\$5.9	Texas Instruments	LMV358ID	/	Analog	5V	/	/	/
103020008	Grove - MOSFET	\$3.9	Changjiangf Electronics Tech	CJQ4435	/	Digital	5V	/	5MHz	/
103020232	Grove - Breadboard	\$2.9	/	/	/	Digital/I2C	<5V	/	/	/
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101020853	Grove - Speaker Plus	\$10.50	MPS	MP3213DH	/	Digital	3.3-5V	/	261-493	/
105020093	Grove - I2C Motor Driver (L298P)	\$12.90	ST	STM32F030F4P6	MAX 2A, 1A for each channel	I2C	6-12V VSS DC/ 5V VS DC	/	/	/
107020109	Grove - Passive Buzzer	\$1.90	Torex	XC6206P332MR-G	/	Digital	3V-5V	> 80dB	2700 Hz	/
107020069	Grove - MP3 V3	\$9.90	唯创知音	WT2003S-20SS	/	I2C	3V-5V	/	8-48KHz	/

SKU	Product	Price	IC Manufacture	Sensor / IC	Operating Current	Interface	Operating Voltage	Sound output	Operating Frequency	Max Power
103020192	Grove - RS232	\$7.95	Texas Instruments	Max3232	Supply Current (no load): 0.3mA	TTL	3.3/5V	/	/	/
103020193	Grove - RS485	\$3.95	Texas Instruments	Max13478E	/	UART	3.3/5V	/	/	/
103020006	Grove - I2C Hub	\$2.9	/	/	/	I2C	3.3/5V	/	/	/
103020013	Grove - I2C ADC	\$12.9	Texus Instruments	ADC121C021	/	I2C	5V	/	Sampling rate:188.9 ksp/s	/
103020293	Grove - 8 Channel I2C Multiplexer/I2C Hub (TCA9548A)	\$5.9	Texus Instruments	TCA9548A	/	I2C	5V	/	/	/
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109020041	Grove - ADS1115 16-bit ADC	\$6.90	TI	ADS1115IDGST	/	I2C	3.3/5V	/	/	/
109020022	Grove - GPS (Air530)	\$11.90	Luat	Air530	up to 60mA	UART	3.3/5V	/	/	/
103020292	Grove - Qwiic Hub	\$1.90	Torex	C6206P332MR-	/	I2C	3.3/5V	/	3.5MHz	/
103020293	Grove - 8 Channel I2C Hub (TCA9548A)	\$5.90	TI	TCA9548APWR	/	I2C	3.3/5V	/	/	/
101020712	Grove - ADC for Load Cell (HX711)	\$3.90	海芯科技	HX711	<1.5mA	I2C	2.6V-5.5V	/	/	/
103020272	Grove - I2C Hub (6 Port)	\$1.50	思拓展	PHS-4A	/	I2C	3.3/5V	/	/	/