



# MEMS Accelerometers



ST offers a portfolio of MEMS-based sensors able to sense acceleration in two or three axis. The mechanical part of linear accelerometer sensor is based on a silicon inter-digitated structure done by fixed and movable fingers. To sense the acceleration in each axis, these structures are packaged in orthogonally groups and the acceleration in each direction is sensed by measuring the change of capacitance between fixed and movable

elements correlated to that axis. The changing of capacitance per axis is then translated into an analog or digital output signal in the interface chip. The whole process of design and production of sensors is managed by STMicroelectronics. This guarantees to the customer high volume production, long term security, high precision and reliability since all the devices are tested by Standards and Proprietary Test Systems.

Output	Axis	Acceleration Range (g)	Package	Calibration (V)	Digi-Key Part No.	Price Each			Tape and Reel‡		STMicroelectronics Part No.
						1	10	100	Qty.	Pricing	
Digital	2	±2/±8	14-LGA	2.16 – 3.6	497-6071-1-ND	6.03	5.34	4.31	5,000	2494.90/M	LIS202DLTR
Analog	2	±2	16-LGA	3.0	497-6343-ND	3.43	3.13	2.48	—	—	LIS244AL
Analog	2	±2/±6	16-LGA	3.3	497-6344-1-ND	7.78	6.89	5.56	3,000	3221.27/M	LIS244ALHTR
Analog	3	±2	14-LGA	3.3	497-5910-1-ND	7.11	6.31	5.09	5,000	2947.56/M	LIS302ALBTR
Digital	3	±2/±8	14-LGA	3.3	497-5911-1-ND	9.10	8.26	6.55	5,000	3471.74/M	LIS302DLTR
Analog	3	±2	14-LGA	3.3	497-6340-ND	6.61	5.86	4.72	—	—	LIS302SG
Analog	3	±3.5	16-LGA	3.0	497-6341-ND	8.09	6.65	5.61	—	—	LIS344AL
Analog	3	±2/±6	16-LGA	3.3	497-6345-1-ND	8.54	7.57	6.10	3,000	3537.08/M	LIS344ALHTR
Analog	3	±2	8-LGA	3.3	497-4917-ND	7.99	7.39	5.60	—	—	LIS3L02AL
Analog	3	±2/±6	44-QFN	2.4 – 3.6	497-6072-1-ND	12.78	11.58	9.19	—	—	LIS3L02AQ3TR
Digital	3	±2/±6	28-QFPN	2.5	497-6346-1-ND	12.31	11.16	8.85	2,300	5386.93/M	LIS3LV02DQ-TR
Analog	1	±2/±6	28-LGA	2.5	497-8230-ND	8.70	8.05	6.09	—	—	LISY300AL

‡ For Tape and Reel part number, change 1-ND to 2-ND.

## Tools and Evaluation Boards



The Micro Electro Mechanical System is a new technology that exploits the mechanical properties of silicon to integrate mechanical structures sensitive to vibration, displacement, acceleration and rotation. This new technology opened the door to a new generation of compact, cost effective and sensitive sensors. While conventional microelectronics development focuses on incremental improvements of a well-established technology, MEMS challenge the way designers work, compelling them to think three dimensionally and to

acquire a unique blend of multi-disciplinary skills combining electrical, semiconductor and mechanical design.

### Features:

- Strategic Cost
- Low Power Consumption
- Low size and weight
- High volumes
- High reproducibility
- High thermal stability by design
- High integration with standard IC devices to build Multi Chip Modules (MCM) or smart sensors.

### LIS302DL Evaluation Board

MEMS 3-Axis ±2g/±8g. Digital Output Low Power Linear Accelerometer Evaluation Board based on LIS302DL (EK302DL).

- 497-6229-ND (STEVAL-MKI006V1)..... 40.55  
497-6342-ND (STEVAL-MKI013V1)..... 25.11

### LIS3LV02DQ Evaluation Board

MEMS 3-Axis ±2g/±6g. Digital Output Low Voltage Linear Accelerometer Evaluation Board based on LIS3LV02DQ.

- 497-6249-ND (STEVAL-MKI004V1)..... 40.55

### LIS3LV02DL Evaluation Board

MEMS 3-Axis ±2g/±6g. Digital Output Low Voltage Linear Accelerometer. Evaluation Board based on LIS3LV02DL (EK3LV02DL).

- 497-6226-ND (STEVAL-MKI005V1)..... 40.55

### LIS3LV02DL Adapter Board

LIS3LV02DL Adapter Board designed to be plugged into a standard DIL 20 socket.

- 497-6227-ND (STEVAL-MKI009V1)..... 18.35

### LIS344ALH Adapter Board

The STEVAL-MKI015V1 is an adapter board designed to facilitate the evaluation of the LIS344ALH three-axis analog output linear accelerometer. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

- 497-8199-ND (STEVAL-MKI015V1)..... 25.11

### LIS344AL Demonstration Kit

The STEVAL-MKI016V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS344AL.

The LIS344AL is a low-power 3-axis linear capacitive accelerometer that includes a sensing element and an IC interface capable of taking information from the sensing element and providing an analog signal to an external application.

- 497-8200-ND (STEVAL-MKI016V1)..... 37.66

### LIS344AL Adapter Board

The STEVAL-MKI017V1 is an adapter board designed to facilitate the evaluation of the LIS344AL three-axis analog output linear accelerometer. The board offers an effective solution for fast prototyping and device evaluation directly within the user's own application.

- 497-8201-ND (STEVAL-MKI017V1)..... 25.11

### LIS244AL Adapter Board

The STEVAL-MKI018V1 is an adapter board designed to facilitate the evaluation of the LIS244AL two-axis analog output linear accelerometer. The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

- 497-8202-ND (STEVAL-MKI018V1)..... 25.11

### LIS302SG Demonstration Kit

The STEVAL-MKI019V1 is a demonstration kit designed to provide the user with a complete, ready-to-use platform for the evaluation of the LIS302SG.

The LIS302SG is a low-power 3-axis linear capacitive accelerometer that includes a sensing element and an IC interface capable of taking information from the sensing element and providing an analog signal to an external application.

- 497-8203-ND (STEVAL-MKI019V1)..... 37.66

### LIS302SG Adapter Board

The STEVAL-MKI020V1 is an adapter board designed to facilitate the evaluation of the LIS302SG three-axis analog output linear accelerometer.

The board offers an effective solution for fast system prototyping and device evaluation directly within the user's own application.

- 497-8204-ND (STEVAL-MKI020V1)..... 25.11

### LIS331AL Evaluation Board

The STEVAL-MKI021V1 MEMS 3-Axis 2g Analog Output Evaluation Board based on NANO Accelerometer LIS331AL.

- 497-8205-ND (STEVAL-MKI021V1)..... 35.73

### STMPE2403 Demonstration Board

The STEVAL-TCS003V1 is a 24 bit port expander demonstration board with LCD, Keypad and PWM interfaces based on STMPE2403.

- 497-8206-ND (STEVAL-TCS003V1)..... 88.83

### STCF03/ST7 Demonstration Board

The STEVAL-TLL005V1, Power Flash Demonstration Board, is based on STCF03.

The STCF03 is a high efficiency power supply solution to drive a single flash LED in a camera phone, PDAs and other hand-held devices.

It is a buck-boost converter to guarantee a proper LED current control over all possible conditions of battery voltage and output voltage.

All the functions of the devices are controlled through I2C interface with microcontroller.

- 497-8207-ND (STEVAL-TLL005V1)..... 58.90

### STUSB03/ST72F63B Evaluation Board

The STEVAL-PCC003V1 is designed for a low speed USB evaluation board based on the STUSB03 transceiver and ST72F63B USB microcontroller.

- 497-8208-ND (STEVAL-PCC003V1)..... 44.42

### STUSB02E/ST72F63B Evaluation Board

The STEVAL-PCC004V1 is designed for a low speed USB evaluation board based on the STUSB02E transceiver and ST72F63B USB microcontroller.

- 497-8209-ND (STEVAL-PCC004V1)..... 44.42

**Digi-Reel®** Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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As a MEMS pioneer, Analog Devices has held a leadership position as a large volume supplier of integrated MEMS accelerometers and gyroscopes. The ADXL products are the foundation for Analog Devices' accelerometer family. Available in low-g or high-g sensing ranges iMEMS (Integrated Micro Electro Mechanical

System) accelerometers are used to measure position, motion, tilt, shock, and vibration in a broad array of applications. Analog Devices offer a broad accelerometer portfolio, including high performance, low power consumption and small size.

Description	G Range	Axes	Sensitivity	Bandwidth	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each			Tape and Reel	
									1	25	100	Qty.	Pricing
<b>Single Axis Accelerometers — RoHS Compliant</b>													
Low Power, High Precision	±1.5g	X	1000mV/g	10Hz	3 – 6	0.7mA	8-CLCC	ADXL103CE-ND	11.62	10.47	9.28	—	—
Low Power, ADXL78	±35g		55mV/g	400Hz	5	1.3mA	8-CLCC	AD22279-A-R2CT-ND‡	8.57	7.71	6.84	250	1638.40
Low Power, ADXL78	±50g		38mV/g	400Hz	5	1.3mA	8-CLCC	AD22280-R2CT-ND‡	8.57	7.71	6.84	250	1638.40
Low Power, ADXL78	±70g		27mV/g	400Hz	5	1.3mA	8-CLCC	AD22281-R2CT-ND‡	8.57	7.71	6.84	250	1638.40
Low Power, ADXL193	±120g		18mV/g	400Hz	5	1.5mA	8-CLCC	AD22282-A-R2CT-ND‡	9.42	8.49	7.53	250	1802.70
Low Power, ADXL193	±250g		8mV/g	400Hz	5	1.5mA	8-CLCC	AD22283-B-R2CT-ND‡	9.42	8.49	7.53	250	1802.70
<b>Dual Axis Accelerometers — RoHS Compliant</b>													
Low Power, Digital Output	±2g	X, Y	12.5%/g	6kHz	2.7 – 5	0.5mA	8-LCC	ADXL202AE-ND*	12.83	11.98	11.12	—	—
Low Power, Digital Output	±2g		12.5%/g	6kHz	2.7 – 5	0.5mA	8-LCC	ADXL202JE-ND*	11.24	10.49	9.74	—	—
Low Power, High Precision	±1.5g		1000mV/g	10Hz	3 – 6	0.7mA	8-CLCC	ADXL203CE-ND	16.53	15.43	14.33	—	—
Low Power, Single IC Chip	±1.7g		620mV/g	2.5kHz	3 – 6	0.5mA	8-LCC	ADXL204CE-ND	16.53	15.43	14.33	—	—
Low Power, Digital Out	±1.2g	30%/g	60Hz	3 – 6	0.7mA	8-LCC	ADXL213AE-ND	12.83	11.98	11.12	—	—	
Low Power, Small, Thin	±5g	X, Y	174mV/g	2.5kHz	2.4 – 5.25	0.45mA	16-Lead LFCSP	ADXL320JCP-ND	6.12	5.52	4.89	—	—
Low Power	±18g		57mV/g	50Hz	2.4 – 6	0.49mA	16-LFCSP	ADXL321JCP-ND	6.12	5.52	4.89	—	—
Low Power	±2g		420mV/g	60Hz	2.4 – 6	0.45mA	16-LFCSP	ADXL322JCP-ND	6.12	5.52	4.89	—	—
Low Power, Small	±3g		300mV/g	1600Hz	1.8 – 5.25	320µA	16-LFCSP	ADXL323KCPZ-RLCT-ND‡	6.98	5.59	4.72	4,000	4330.16/M
Low Power, ADXL278	±35g		55mV/g	400Hz	5	2.2mA	8-CLCC	AD22284-A-R2CT-ND‡	11.58	10.81	10.04	250	2459.91
Low Power, ADXL278	±50g		38mV/g	400Hz	5	2.2mA	8-CLCC	AD22285-R2CT-ND‡	11.58	10.81	10.04	250	2459.91
Low Power, ADXL278	±70g	27mV/g	400Hz	5	2.2mA	8-CLCC	AD22286-R2CT-ND‡	11.58	10.81	10.04	250	2459.91	
<b>Triple Axis Accelerometers — Low Power — RoHS Compliant</b>													
Low Power, Small	±3g	X, Y, Z	300mV/g	1.6(X,Y) 0.55(Z)	2 – 3.6	0.2mA	16-LFCSP	ADXL330KCPZ-RLCT-ND‡	8.50	7.66	6.79	4,000	6201.10/M

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape \* Not recommended for new design ◆ RoHS Compliant

**iMEMS® Evaluation Boards**

ADXL203EB-ND	Evaluation Board for ADXL203	23.66
ADXL204EB-ND	Evaluation Board for the ADXL204CE, Dual Axis Accelerometer	23.66
ADXL213EB-ND	Evaluation Board for ADXL213	23.66
ADXL321EB-ND	Evaluation Board for ADXL321	23.66
ADXL330EB-ND	Evaluation Board for ADXL330	50.39

◆ RoHS Compliant

**ANALOG DEVICES** **iSensor™ Intelligent Sensors**

iSensor ADIS Accelerometers/Gyros enhance ADXL/ADXRS iMEMS accelerometers with additional performance and functionality, such as embedded signal processing and control. These inertial sensors address special requirements such as calibration/tuning, application specific interfaces, digital I/O, wireless links, embedded intelligence and programmability, power management, and analog signal conditioning.

Description	Sensor Core	Output Type	Sensitivity	Temperature Sensor	Voltage Supply (V)	Supply Current (mA)	Temperature Range (°C)	Package (mm/type)	Digi-Key Part No.	Price Each		
										1	25	100
<b>ADIS Accelerometers — RoHS Compliant</b>												
±1.7g Accelerometer	Accelerometer	SPI	820 LSB/g	Yes	3 – 5.25	1.5 (typical)	-40 – 125	12 LGA	ADIS16003CCCZ-ND	23.97	22.38	20.78
±5g Accelerometer	Accelerometer	SPI	256 LSB/g	Yes	3 – 5.25	1.5 (typical)	-40 – 125	12 LGA	ADIS16006CCCZ-ND	23.97	22.38	20.78
Programmable, ±5g Accelerometer	Accelerometer/Incl.	SPI	2 LSB/mg(10LSB/°)	Yes	3 – 3.6	11 (5 in Standby)	-40 – 125	16 LGA	ADIS16201CCCZ-ND	31.91	29.79	27.66
Programmable, Single Axis Inclinometer	360° Inclinometer	SPI	0.025°/LSB	Yes	3 – 3.6	11 (5 in Standby)	-40 – 125	16 LGA	ADIS16203CCCZ-ND	31.91	29.79	27.66
Programmable, High-g Sensor/Recorder	Accel./Impact Sensor	SPI	±70g; ±37g	Yes	3 – 3.6	12 (5 in Standby)	-40 – 105	16 LGA	ADIS16204BCCZ-ND	27.50	25.67	23.84
Digital Dual Axis Accel./Inclinometer	Accel./Inclinometer	SPI	0.025°/LSB	Yes	3 – 3.6	14	-40 – 125	16 LGA	ADIS16209CCCZ-ND	46.17	43.09	40.01

**iSensor™ Evaluation Boards**

ADIS16003/PCBZ-ND◆	Evaluation Board for the ADIS16003, ±1.7g, Dual Axis Accelerometer	75.00
ADIS16006/PCBZ-ND◆	Evaluation Board for ADIS16006/PCB	75.00
ADIS16060/PCBZ-ND◆	Evaluation Board for ADIS16060	75.00
ADIS16080/PCBZ-ND◆	Evaluation Board for ADIS16080	75.00
ADIS16100/PCB-ND	Evaluation Board for the ADIS16100, ±300°/Sec. Yaw Rate Gyro	75.00
ADIS16120/PCB-ND	Evaluation Board for the ADIS16120	980.10
ADIS16201/PCBZ-ND◆	Evaluation Board for the ADIS16201, Programmable, Dual-Axis Inclinometer/Accelerometer	75.00
ADIS16203/PCBZ-ND◆	Evaluation Board for the ADIS16203	75.00
ADIS16204/PCBZ-ND◆	Evaluation Board for ADIS16204/PCB	75.00
ADIS16209/PCBZ-ND◆	Evaluation Board for ADIS16209	75.00
ADIS16250/PCBZ-ND◆	Evaluation Board for the ADIS16250	75.00
ADIS16251/PCBZ-ND◆	Evaluation Board for ADIS16251	75.00
ADIS16255/PCBZ-ND◆	Evaluation Board for the ADIS16255	75.00
ADIS16350/EVALZ-ND◆	Tri Axis Inertial Sensor Evaluation Kit	475.27
ADIS16354/EVALZ-ND◆	Tri Axis Inertial Sensor Evaluation Kit	577.76
ADIS16354/PCBZ-ND◆	Evaluation Board for ADIS16354	447.44
ADIS16355/PCBZ-ND◆	Evaluation Board for ADIS16355	489.51
ADISEVALZ-ND◆	iSensor PC Evaluation System	232.91

◆ RoHS Compliant

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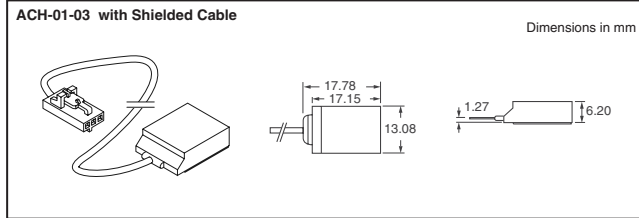
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## ACH-01 Accelerometers

The ACH-01 Accelerometer is a robust, general purpose, linear single axis accelerometer featuring buffered electronic output.

### Specifications:

- **Sensitivity:** 10mV/g • **Lower Frequency Limit (-3dB):** 2Hz • **Upper Frequency Limit (+3dB):** 20kHz
- **Dynamic Range:** ±150g • **Linearity:** 0.1% • **Resonant Frequency:** 35kHz • **Operating Temperature:** -40°C ~ 85°C • **Maximum Shock Level:** 1000g



Description	Digi-Key Part No.	Price Each			Measurement Part No.
		1	10	100	
ACH-01-03 Sensor Accelerometer with 40" Single Coax Cable and Female Connector	MSP1001-ND	32.67	29.04	25.78	1-1001220-0
ACH-01-04 Sensor Accelerometer with Wires	MSP1002-ND	27.23	24.51	21.78	1-1001497-0

## Amplifier Box

For use with ACH-01-03 and ACH-01-04

**Characteristics:** • **Gain:** 10X • **Power Supply:** 9V Battery • **Supply Current:** 4.0mA • **Input Interface:** FET for ACH-01 • **Output Impedance:** 100Ω • **Output Connector:** BNC

Description	Digi-Key Part No.	Price Each			Measurement Part No.
		1	10	100	
IB-ACH-01 — Amplifier Box	MSP1003-ND	181.50	163.35	147.02	0-1003058-0

## Basic Design Kit

This kit demonstrates the use of MSI piezo film sensors as microphones, speakers, switches and acoustic pickups. All components and film samples in the kit can be used for experimentation.

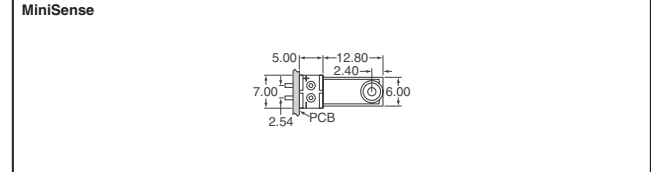
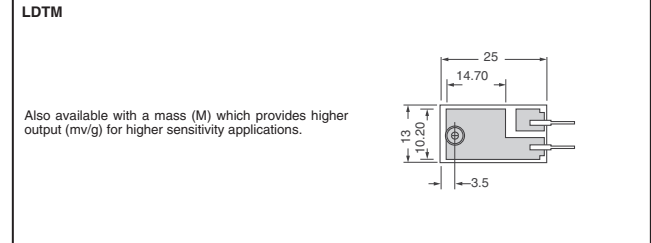
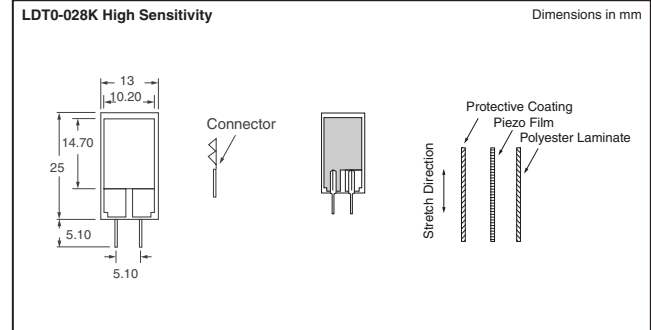
**Kit Includes:** • Seven sensor elements • One piezo cable • One PCB for ACH-04-08 • Application/instruction specifications • Technical manual

Description	Digi-Key Part No.	Price Each			Measurement Part No.
		1	10	100	
Basic Design Kit	MSP1010-ND	145.20			0-1004308-0

## LDT Vibration Sensors



Typically, a 0.005" (125µm) polyester layer is laminated to a 28µm piezo film element. When used in a "bending" mode, laminated film elements develop much higher voltage output when flexed than non-laminated elements. The piezo film is off the neutral axis in the laminate, and is strained more when flexed.



Description	Cap (nF)	Digi-Key Part No.	Price Each			Measurement Part No.
			1	10	100	
LDT0-028K, with Solder Tabs	500	MSP1006-ND	1.74	1.46	1.31	1002794-0
LDTM-028K, with Mass and Solder Tabs	420	MSP1007-ND	2.07	1.73	1.56	0-1005447-1
MiniSense 100 (Horizontal)	—	MSP6914-ND	2.90	2.46	2.00	1005939-1
MiniSense 100 (Vertical)	—	MSP6915-ND	2.90	2.46	2.00	1005940-1

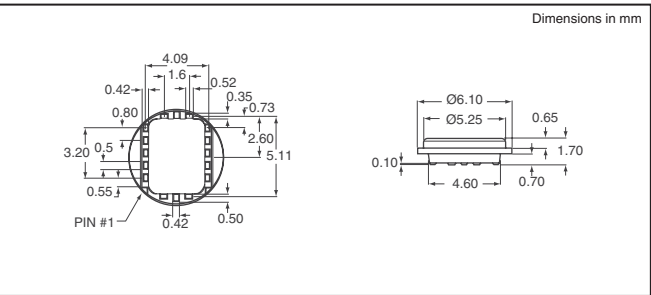
## Pressure Sensors



The SCP1000 performs almost complete data processing on-chip. The communication between the SCP1000 and its host micro-controller (µC) is based on a serial interface, an interrupt line and specialized pins used to trigger special functions. Two different serial interfaces are available: SPI and TWI (TWI is very similar to I2C bus). The appropriate communication interface is pre-programmed in the factory.

The SCP1000 pressure demonstrator is designed to give a quick access and understanding on the performance and capabilities of the SCP1000 pressure component. The demo kit supports SCP1000-D01 and SCP1000-D11 sensors.

**SCP1000 Demo Kit Includes:** SCP1000-D01 sensor soldered on chip carrier PCB, USB interface card inside the demo box, USB cable, CD-ROM with documentation, drivers and GUI software running on PC



Description	Supply Voltage	Average Supply Current (µA)	Measuring Range (kPa)	Temperature Range	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		VTI Part No.
							1	10	25		Qty.	Pricing	
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	SPI Interface	551-1046-1-ND	21.58	20.56	19.58	551-1046-2-ND	100	1775.94	SCP1000-D01
Absolute Pressure Sensor	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I <sup>2</sup> C Interface	551-1043-1-ND	21.58	20.56	19.58	551-1043-2-ND	100	1775.94	SCP1000-D11
SCP1000-D01 on PCB	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	SPI Interface	551-1042-ND†	41.44	40.70	39.96	—	—	—	SCP1000 PCB1
SCP1000-D11 on PCB	2.4 ~ 3.3V	25	30 ~ 120	-20°C ~ 70°C	I <sup>2</sup> C Interface	551-1044-ND†	41.44	40.70	39.96	—	—	—	SCP1000 PCB3
Sealing Gasket for SCP1000 Series Sensors						551-1049-ND	.29	.17	.14	—	—	—	SCP1000 GA/1K
Demo Kit for SCP1000						551-1045-ND	295.99	—	—	—	—	—	SCP1000-D01 DEMO

† Bulk

**Free shipping on orders over £50! All prices are in British pound sterling and include duties.**

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## Accelerometers and Inclinometers

VTI Technologies is a forerunner in motion and pressure sensors and the world's leading designer and producer of acceleration sensors. VTI develops and produces silicon based capacitive sensors with unique 3D-MEMS (MicroElectroMechanical System) technology, with application areas in acceleration, inclination, shock, vibration and pressure measurement.

Dimensions in mm

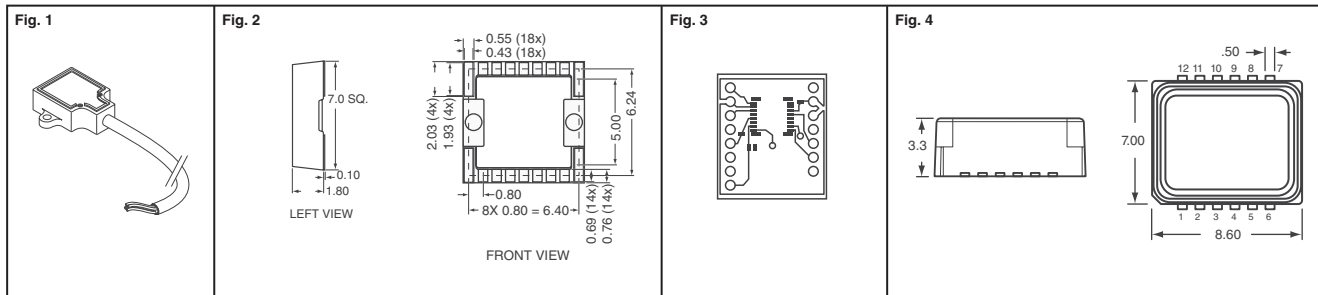


Fig.	Description	Supply Voltage (V)	Current Consumption	Measuring Range	Sensitivity	Frequency Response (Hz)	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel		VTI Part No.	
										1	10	25	Qty.	Pricing		
<b>Inclinometers — RoHS Compliant</b>																
—	Single Output, 1g	4.75 - 5.25	2.5mA	±90°	2V/g	8 - 28	-55 - 125	8-DIL SMD	551-1005-1-ND	35.69	33.99	32.38	100	2936.38	SCA61T-FA1H1G	
	Single Output, 0.5g	4.75 - 5.25	2.5mA	±30°	4V/g	8 - 28	-55 - 125	8-DIL SMD	551-1004-1-ND	35.69	33.99	32.38	100	2936.38	SCA61T-FAHH1G	
	Dual Output, 0.5g	4.75 - 5.25	4mA	±30°	4V/g	8 - 28	-55 - 125	12-DIL SMD	551-1002-1-ND	46.91	44.69	42.56	100	3860.00	SCA100T-D01	
	Dual Output, 1g	4.75 - 5.25	4mA	±90°	2V/g	8 - 28	-55 - 125	12-DIL SMD	551-1003-1-ND	46.91	44.69	42.56	100	3860.00	SCA100T-D02	
	Single Output, 0.26g	4.75 - 5.25	4mA	±15°	16V/g	8 - 28	-55 - 125	12-DIL SMD	551-1000-1-ND	46.91	44.69	42.56	100	3860.00	SCA103T-D04	
	Single Output, 0.5g	4.75 - 5.25	4mA	±30°	8V/g	8 - 28	-55 - 125	12-DIL SMD	551-1001-1-ND	46.91	44.69	42.56	100	3860.00	SCA103T-D05	
<b>Accelerometers — RoHS Compliant</b>																
—	Dual Output	4.75 - 5.25	5mA	±1.7g	1.2V/g	50±30	-55 - 125	12-DIL SMD	551-1007-1-ND	37.99	36.19	34.47	—	—	SCA1000-D01	
	Dual Output	4.75 - 5.25	5mA	±1.7g	1.2V/g	50±30	-55 - 125	12-DIL SMD	551-1008-1-ND	40.16	38.24	36.43	100	3303.30	SCA1020-D02	
	Dual Output	4.75 - 5.25	4.5mA	±4g	.55V/g	115±55	-55 - 125	12-DIL SMD	551-1025-1-ND	64.77	61.69	58.75	100	5328.62	SCA1000-N1000070	
	Single Output	4.75 - 5.25	2mA	±0.5g	4V/g	18±10	-55 - 125	8-DIL SMD	551-1009-1-ND	32.93	31.29	29.73	600	13068.87	SCA610-CAHH1G	
	Single Output	4.75 - 5.25	2mA	±1g	2V/g	18±10	-55 - 125	8-DIL SMD	551-1010-1-ND	35.69	33.99	32.38	600	13068.87	SCA610-CA1H1G	
	Single Output	4.75 - 5.25	2mA	±1.5g	1.33V/g	400±150	-55 - 125	8-DIL SMD	551-1026-1-ND	27.44	24.70	23.47	—	—	SCA610-C13H1A	
	Single Output	4.75 - 5.25	2mA	±1g	2V/g	50±30	-55 - 125	8-DIL SMD	551-1027-1-ND	27.44	24.70	23.47	—	—	SCA610-C21H1A	
	Single Output	4.75 - 5.25	2mA	±1.5g	1.333V/g	50±30	-55 - 125	8-DIL SMD	551-1011-1-ND	27.44	24.70	23.47	—	—	SCA610-C23H1A	
	Single Output	4.75 - 5.25	2mA	±3g	.75V/g	115±55	-55 - 125	8-DIL SMD	551-1028-1-ND	27.44	24.70	23.47	—	—	SCA610-CC5H1A	
	Single Output	4.75 - 5.25	2mA	±1.7g	1.2V/g	50±30	-55 - 125	8-DIL SMD	551-1012-1-ND	28.76	27.40	26.09	100	2367.05	SCA610-C28H1A	
	Single Output	4.75 - 5.25	2mA	±1.7g	1.2V/g	50±30	-55 - 125	8-DIL SMD	551-1013-1-ND	34.54	32.90	31.33	600	12786.60	SCA620-CF8H1A	
	<b>Stand Alone Inclinometers and Accelerometers</b>															
	1	Dual Axis	7 - 35	5mA	±90°	2V/g, 70mV/≥4V/g	18	-40 - 85	Module	551-1017-ND◆	116.03	94.72	80.51	—	—	SCA121T-D03
		Dual Axis	4.75 - 5.25	5mA	±90°	2V/g, 70mV/≥4V/g	18	-40 - 85	Module	551-1029-ND◆	116.03	94.72	80.51	—	—	SCA121T-D05
		Dual Axis	7 - 35	5mA	±30°	2V/g, 70mV/≥4V/g	18	-40 - 85	Module	551-1018-ND◆	116.03	94.72	80.51	—	—	SCA121T-D07
Dual Axis		7 - 35	20mA	±30°	0.035°/LSB	10 - 28	—	Module	551-1015-ND	156.82	133.30	117.62	—	—	SCA125T-D08-A	
2	Triple Axis Digital	2.35 - 3.6	480µA	±2g	1333/g	45	-40 - 85	SPI Interface	551-1033-1-ND◆	21.58	20.56	19.58	1,000	8637.22	SCA3000-D01	
	Triple Axis Digital	2.35 - 3.6	650µA	±2g	1333/g	45	-40 - 85	I <sup>2</sup> C Interface	551-1035-1-ND◆	21.58	20.56	19.58	1,000	7966.40	SCA3000-D02	
	Triple Axis Digital	2.35 - 3.6	120µA	±3g	1000/g	35	-40 - 85	SPI Interface	551-1037-1-ND◆	21.58	20.56	19.58	1,000	8637.22	SCA3000-E01	
	Triple Axis Digital	2.35 - 3.6	200µA	±3g	1000/g	40	-40 - 85	I <sup>2</sup> C Interface	551-1039-1-ND◆	21.58	20.56	19.58	1,000	8637.22	SCA3000-E02	
	Triple Axis Digital	2.35 - 3.6	120µA	±6g	500/g	38	-40 - 85	SPI Interface	551-1047-1-ND◆	21.58	20.56	19.58	1,000	8637.22	SCA3000-E04	
	Triple Axis Digital	2.35 - 3.6	120µA	±18g	160/g	Selectable	-40 - 85	SPI Interface	551-1048-1-ND◆	16.94	15.76	14.57	100	1185.56	SCA3000-E05	
—	Dual Axis Subassembly	7 - 35	4.5mA	±10°	200mV/°	3	-40 - 85	PC Board	551-1020-ND◆	76.74	68.67	59.20	—	—	SCL1700-D01	
	Dual Axis Subassembly	4.75 - 5.25	4.5mA	±15°	150mV/°	3	-40 - 85	PC Board	551-1032-ND◆	76.74	68.67	59.20	—	—	SCL1700-D31	
3	SCA3000 Demo w/D01 on PWB	—	—	±1.7g	1.2V/g	20	—	Demo Kit	551-1041-ND◆	295.99	—	—	—	—	SCA3000-D01DEMO	
	SCA3000-D01 on PWB	2.35 - 3.6	480µA	±2g	1333/g	45	-40 - 85	SPI Interface	551-1034-ND◆	41.44	40.70	39.96	—	—	SCA3000-D01 PWB	
	SCA3000-D02 on PWB	2.35 - 3.6	650µA	±2g	1333/g	45	-40 - 85	I <sup>2</sup> C Interface	551-1036-ND◆	41.44	40.70	39.96	—	—	SCA3000-D02 PWB	
	SCA3000-E01 on PWB	2.35 - 3.6	120µA	±3g	1000/g	35	-40 - 85	SPI Interface	551-1038-ND◆	41.44	40.70	39.96	—	—	SCA3000-E01 PWB	
	SCA3000-E02 on PWB	2.35 - 3.6	200µA	±3g	1000/g	40	-40 - 85	I <sup>2</sup> C Interface	551-1040-ND◆	41.44	40.70	39.96	—	—	SCA3000-E02 PWB	
	SCA3000-E04 on PWB	2.35 - 3.6	120µA	±6g	500/g	38	-40 - 85	SPI Interface	551-1047-ND◆	41.44	40.70	39.96	—	—	SCA3000-E04 PWB	
4	Single Z-Axis Digital	3.3	5mA	±2g	900/g	80	-40 - 125	SPI Interface	551-1051-1-ND◆	28.51	26.14	23.76	100	1900.45	SCA820-D04	
	Single Y-Axis Digital	3.3	5mA	±2g	900/g	80	-40 - 125	SPI Interface	551-1052-1-ND◆	27.27	25.00	22.73	100	1818.12	SCA830-D06	
	Single Y-Axis Digital	3.3	5mA	±1g	32000/g	6.25	-40 - 125	SPI Interface	551-1053-1-ND◆	38.62	35.41	32.19	100	2574.83	SCA830-D07	
	Dual XY-Axis Digital	3.3	3mA	±2g	900/g	55	-40 - 125	SPI Interface	551-1054-1-ND◆	36.17	33.16	30.15	100	2411.34	SCA2100-D02	
	Triple XYZ-Axis Digital	3.3	3mA	±2g	900/g	55	-40 - 125	SPI Interface	551-1055-1-ND◆	44.45	40.75	37.04	100	2963.10	SCA3100-D04	
—	SCA820-D04 on PCB	3.3	—	±2g	900/g	80	-40 - 125	SPI Interface	551-1057-ND◆	62.16	56.98	53.88	—	—	SCA820-D04 PCB	
	SCA830-D06 on PCB	3.3	—	±2g	900/g	80	-40 - 125	SPI Interface	551-1058-ND◆	62.16	56.98	53.88	—	—	SCA830-D06 PCB	
	SCA830-D07 on PCB	3.3	—	±1g	32000/g	6.25	-40 - 125	SPI Interface	551-1059-ND◆	62.16	56.98	53.88	—	—	SCA830-D07 PCB	
	SCA2100-D02 on PCB	3.3	—	±2g	900/g	55	-40 - 125	SPI Interface	551-1060-ND◆	62.16	56.98	53.88	—	—	SCA2100-D02 PCB	
	SCA3100-D04 on PCB	3.3	—	±2g	900/g	55	-40 - 125	SPI Interface	551-1061-ND◆	62.16	56.98	53.88	—	—	SCA3100-D04 PCB	
	SCA3100 Demo w/D04 on PCB	—	—	—	—	—	—	Demo Kit	551-1056-ND◆	414.39	—	—	—	—	SCA3100 Demo Kit	

† For Tape and Reel part number, change 1-ND to 2-ND. ◆ RoHS Compliant

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