



**LOW COST
MOLDED INDUSTRIAL
ACCELEROMETERS**

GTC

YES, IT'S COVERED!

At CTC, we understand that predictive machine maintenance is vital across a wide array of industrial applications. That's why we've developed the industry's best accelerometers, cables, connectors, junction boxes, and hardware for all of your vibration analysis needs.

For more than a quarter of a century, CTC has stood behind its promise to bring you the most durable and reliable vibration analysis equipment, designed to withstand long term use in the harshest industrial environments.

We're so proud of our CTC Line of products, we back up our promise with the industry's best Unconditional Lifetime Warranty.

If any CTC Line product should ever fail, CTC will repair or replace the product, free of charge.

We not only offer you the highest quality products on the market, but we also offer you unmatched service and peace of mind for the lifetime of your CTC Line product.

We wouldn't have you do business any other way.



TODD COOK
Co-owner



LAURA COOK
Co-owner



ANDREW COOK
Director
of Sales



CHARLOTTE COOK
Director of
Marketing

WHY GO MOLDED?

CTC'S MA Series Sensors feature polycarbonate over-molded industrial accelerometers for use in permanent mount monitoring applications. These economical sensors cost less than traditional stainless steel case sensors and also offer the same great product specifications.



PREMIUM PERFORMANCE AT AN EXCEPTIONAL PRICE



WATER AND CHEMICAL RESISTANT FOR HARSH INDUSTRIAL ENVIRONMENTS
(IP68 Rated to 40 PSI when used with a boot connector)



HIGH VOLTAGE RESISTANCE UP TO 10,000 VOLTS DC / 7,000 VOLTS AC (MA200 Series)



HEAVY DUTY POLYCARBONATE MOLDED SHELL WITHSTANDS CONTINUOUS USE AND ABUSE



DESIGNED FOR PERMANENT MONITORING INSTALLATIONS



BACKED BY THE CTC'S LINES' BEST-IN-CLASS UNCONDITIONAL LIFETIME WARRANTY

MA102 vs. AC102 SPECIFICATIONS

MA Series Sensors feature specifications identical to their corresponding AC Series counterparts, at a lower price:



CASE MATERIAL:
POLYCARBONATE

MA102 and AC102		
Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz
Frequency Response (±10%)	120-600,000 CPM	2.0-10000 Hz
Dynamic Range		± 80 g, peak
Electrical		
Settling Time		<2.5 seconds
Voltage Source (IEPE)		18-30 VDC
Constant Current Excitation		2-10mA
Spectral Noise @ 10 Hz		14 µg/√Hz
Spectral Noise @ 100 Hz		2.3 µg/√Hz
Spectral Noise @ 100 Hz		2 µg/√Hz
Output Impedance		<100 ohm
Bias Output Voltage		10-14 VDC
Case Isolation		>10 ⁹ ohm
Environmental		
Temperature Range	-58 to 250 °F	-50 to 121 °C
Maximum Shock Protection		5,000 g, peak
Sealing		Welded, Hermetic
Submersible Depth	200 ft.	60 m
SIL Rating		SIL 2
Physical		
Sensing Element		PZT Ceramic
Maximum Shock Protection		Shear Mode
Weight	3.02 oz	90 grams
Mounting		1/4-28
Connector (Non-Integral)		2 Pin MIL-C-5015 (molded: 2 Pin MIL-C-5015 equivalent)
Resonant Frequency	1,380,000 CPM	23000 Hz
Mounting Torque	2 to 5 ft. lbs	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter
Calibration Certificate		CA10



CASE MATERIAL:
316L STAINLESS STEEL

MA100 SERIES SENSOR OFFERINGS

MA100 Series are general purpose sensors engineered for use across a wide range of industries and applications, including cement, mining, food and beverage, pharmaceutical, and many more.

MA100 Series Sensors feature the same specifications as their corresponding AC100 Series counterparts, at a lower price.



MA102-1A

100 mV/g
± 10%

MA150-1A

100 mV/g
± 20%

MA133-1A

500 mV/g
± 10%

MA153-1A

500 mV/g
± 20%

MA131-1A

10 mV/g
± 10%

MA135-1A

10 mV/g
± 20%

MA200 SERIES SENSOR OFFERINGS

MA200 Series are polycarbonate over-molded industrial accelerometers engineered for use specifically in permanent monitoring applications that require high electrical isolation between the sensor and machine, such as wind turbines, railway systems and other high-voltage generators.

CTC's High Voltage MA200 Series industrial accelerometers are designed to withstand arcing as high as 10,000 volts DC (7,000 volts AC) between the sensor base and its internal electronics. High Voltage sensors also offer increased EMI resistance in areas where high electromagnetic interference occurs.



MA202-1A
100 mV/g
± 10%

MA250-1A
100 mV/g
± 20%

MA233-1A
500 mV/g
± 10%

MA253-1A
500 mV/g
± 20%

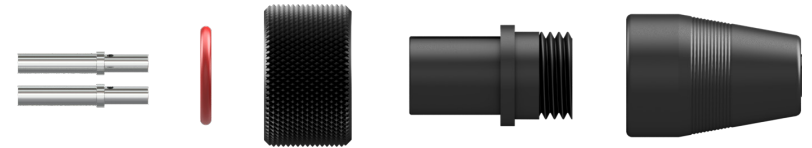
CONNECTOR FOR MOLDED SENSORS

CTC offers a variety of durable and reliable permanent monitoring connectors for use with MA Series industrial accelerometers:

CKP-A2A CONNECTOR KIT

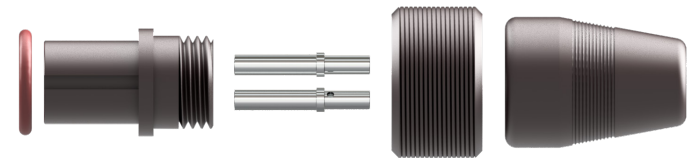
CTC's MA Series molded sensors are compatible with our new CKP-A2A Connector Kit. The CKP-A2A Connector is made with a polycarbonate nut to prevent stripping the molded sensor's threads.

The CKP-A2A is the lowest cost connector option for use with MA Series molded sensors.



A2S CONNECTOR

CTC's MA Series molded sensors may also be used with our A2S Connector and Connector Kit. The A2S Connector is a 2 socket MIL-style connector with PPS locking ring.



B SERIES CONNECTORS

CTC's MA Series molded sensors are compatible with our B Series Connectors and Connector Kits. B Series connectors feature 2 socket MIL-style seal-tight silicone boot with Polycarbonate, Nylon, or PPS insert options.





CONTACT CTC

CTC IS HERE TO HELP WITH YOUR VIBRATION ANALYSIS NEEDS

+01 585.924.5900

SALES@CTCONLINE.COM

WWW.CTCONLINE.COM

CONNECTION TECHNOLOGY CENTER, INC. | 7939 RAE BLVD | VICTOR, NY 14564 | USA