



# 4-130-0128

## Vibration Transducer



### Applications

- Aircraft Turbines Engines
- Test Cells
- Civil & Military Aircraft Ground Support

### Features

- New bearing materials provide exceptional service life
- Self-generated, high level, low impedance output
- CEC's smallest velocity sensor

Velocity Sensors

### Description

CEC Vibration Products is proud to present the newest addition to the very successful 4-130 family of self-generating, low impedance, velocity output vibration transducers.

Designed for use on turbine applications where temperature and noise can cause other sensors to malfunction, the 4-130-0128 can be mounted in tight-fit locations to assure that only actual engine vibrations are transmitted for analysis.

CEC velocity transducers simplify your analysis system because low impedance, high level AC mV output does not require special pre-amplifiers or costly low-noise cables.

The 4-130-0128 velocity transducer provides a direct calibrated AC mV/inch/sec output that can be transmitted via standard cable uninterrupted to the monitoring systems.



# 4-130-0128 Small Form Velocity Transducer

## Performance Specifications

<b>Sensitivity:</b>	100 mV/in/sec $\pm 3\%$
<b>Dynamic Range</b>	
<b>Frequency:</b>	35Hz to 2000Hz
<b>Amplitude:</b>	0.10 inch peak-to-peak, maximum
<b>Acceleration:</b>	0.3g to 50g, mounted vertically 1.0g to 50g, mounted horizontally
<b>Frequency Response</b>	
<b>Vertically Mounted:</b>	35 to 45Hz, $\pm 10\%$ max 45 to 2,000Hz, $\pm 6\%$ max
<b>Other:</b>	35 to 2,000Hz, $\pm 10\%$ max
<b>Linearity:</b>	
<b>Vertically Mounted:</b>	35 to 2,000Hz, $\pm 8\%$ max
<b>Other:</b>	35 to 2,000Hz, $\pm 10\%$ max
<b>Transverse Sensitivity:</b>	2% maximum
<b>Temperature Range</b>	
<b>Operating:</b>	-65°F to +500°F (-54°C to +260°C)
<b>Error:</b>	$\pm 0.02\%/^{\circ}\text{F}$ from reference +77°F
<b>Excitation:</b>	Self-generating
<b>Insulation Resistance:</b>	0.1 megaohm minimum @ +500°F
<b>Shock:</b>	50g's maximum in any direction
<b>Sealing Method:</b>	Unit is of welded construction
<b>Weight:</b>	2.7 oz
<b>Mounting:</b>	1/4-28 stud

## Ordering Information

When ordering, specify Type 4-130-0128. In keeping with CEC's policy of continuing product improvement, specifications may be changed without notice.

## Approvals



### North America

CSA C/US Class I, Division I, Groups A, B, C and D  
Class I, Division 2, Groups A, B, C and D



### European

ATEX EEx ia IIB or IIC T6 - T1  
EEx nA II T6 - T1 X

