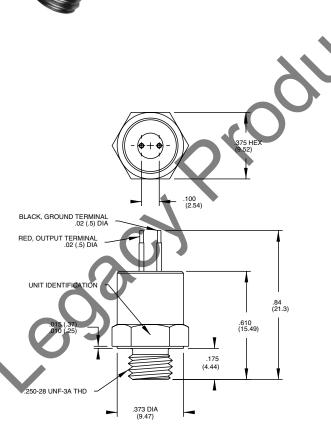


# Model 7255A Isotron<sup>®</sup> accelerometer

### Features

- Low impedance output
- Built-in mechanical filter
- Hermetically sealed
- Light weight (5.0 gm)
- High-g/near-field shock applications





STANDARD TOLERANCE INCHES (MILLIMETERS) .XX = +/- .02 (.X = +/- .5) .XXX = +/- .010 (.XX = +/- .25)

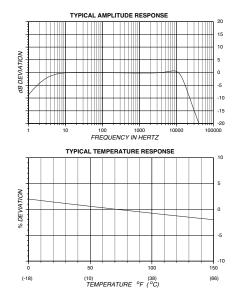
## Description



The Endevco® model 7255A Pyrotron is a miniature. lightweight piezoelectric accelerometer with integral electronics, designed specifically for near-field pyroshock and high-level mechanical impact measurements, where unwanted high frequency signals often mask the desired low-level, low frequency information. The unit incorporates a uniquely designed built-in mechanical filter system to effectively block out high frequency input spikes, protecting the sensing element from overstress. The model 7255A-01 has a 50 000 g full scale output range and 300 000 g survivability. It is deal for near-field, high-g measurement. For lower level shocks, a high output "-1" range (5000 g F.S.) is available.

The accelerometer incorporates an internal hybrid signal conditioner in a two-wire system which transmits its low impedance voltage output through the same cable that supplies the required constant current power. Signal ground is connected to the inner case of the unit which acts as a shield, and both the output and signal ground terminals are electrically isolated from the mounting surface. The accelerometer features an integral 1/4-28 mounting stud and two solder-pin terminals for output connection. Small gage, lightweight hook-up wires are required for error-free operation. The model number suffix indicates acceleration sensitivity in mV/g; i.e., 7255A-01 features output sensitivity of 0.1 mV/g.

Endevco signal conditioner Models 2792B, 2793, 2775B or Oasis 2000 computercontrolled system, are recommended for use with this accelerometer.

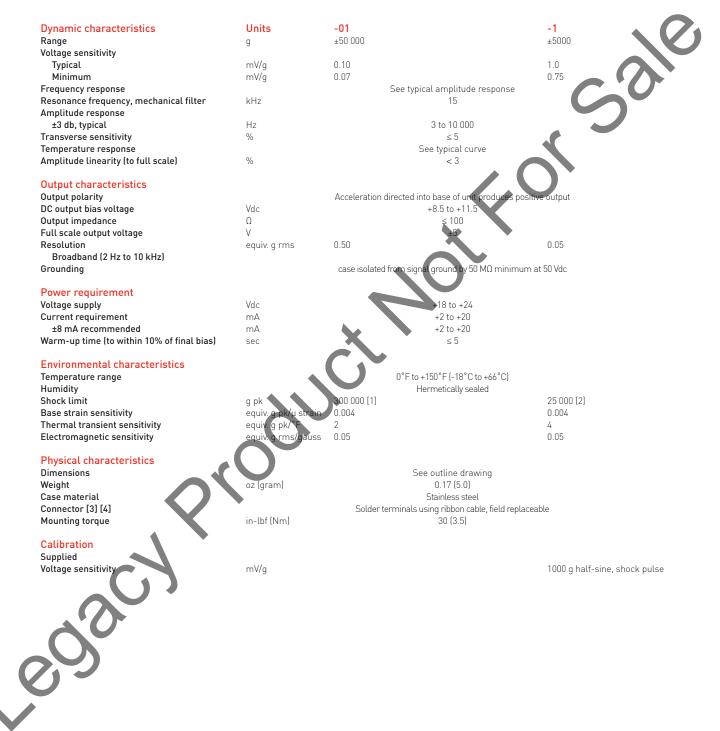


# Model 7255A Isotron<sup>®</sup> accelerometer



### Specifications

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) 4 mA and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.



## Model 7255A Isotron<sup>®</sup> accelerometer

### Accessories:

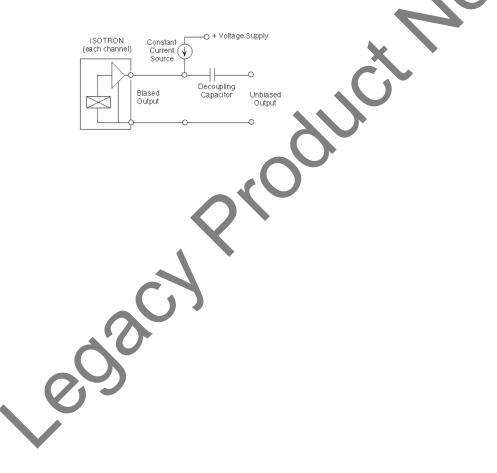
Product	Description	7255A
3024-12W	Cable assembly, 10ft	Included
EHM1094	Protective vinyl boot	Included

### Notes:

- 1. Mechanical filter is effective up to 300 000 g's peak in the sensitive direction and 100 000 g's peak in the transverse direction an
- 2. The mechanical filter is effective up to 25 000 g's peak in the sensitive direction and 10 000 g's peak in the transverse d
- 3. Heavy cable (other than the supplied model 3024) may cause frequency response errors during measurement or calibration.
- 4. It is recommended to install small shrink tubing over the solder joints to prevent accidental touching.
- 5. Read the instruction manual regarding the use of protective vinyl boot.
- 6. Recommended reading: TP308.
- 7. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at +1 (866) 363-3826 for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

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Continued product improvement necessitates that Endevco reserve the right to modify thesespecifications without notice. Endevco maintains a program of con-stant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability.