These capacitive sensors may be used up to 600 °C (1100 °F) without any cooling.

These COD gages use a high-temperature capacitive sensor and do not require any cooling. They will operate up to the maximum temperature limit of most environmental chambers used in materials testing. The Model 7641 is ideal for determination of fracture mechanics parameters such as JIC, KIC, R-curve, fatigue crack growth rate (da/dN), and testing to standards such as E1820, E399, E647, etc. All units can be displaced slightly in compression for ease of installation.

The COD gage is supplied with the revolutionary DT6229 controller. The standard output is 0-10VDC analog signal, factory calibrated with the COD gage. These COD gages use a high-temperature capacitive sensor and do not require any cooling. They will operate up to the maximum temperature limit of most environmental chambers used in materials testing. The Model 7641 is ideal for determination of fracture mechanics parameters such as JIC, KIC, R-curve, fatigue crack growth rate (da/dN), and testing to standards such as E1820, E399, E647, etc. All units can be displaced slightly in compression for ease of installation.

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The COD gage is supplied with the revolutionary DT6229 controller. The standard output is 0-10VDC analog signal, factory calibrated with the COD gage. This system provides a number of functional enhancements, including: high speed digital output, built in calibration and tare functions, analog and digital filters, and more.

The 7641 is readily interfaced with most existing test controllers, and may be directly connected to a data acquisition system or chart recorder, or directly to a PC. The 7641 may be used for strain controlled tests such as JIC. See the electronics section of this catalog for available signal conditioners and strain meters.

Features
- May be left on through specimen failure.
- Improved performance at high temperature.
- Improved noise rejection, resolution, and accuracy.
- Improved clearance with most clevis designs.
- Improved linearity and reduced stiffness.
- Reduced size and weight, and improved high frequency performance.
- All standard models are suitable for cyclic testing.
- ~25 Hz is typical for 10mm GL and larger, up to 100 Hz for some configurations.
- Typically limited by the user’s test apparatus, software settings, and data selection.
- Digital controller and power supply included. Provides high level DC voltage output with low noise. Easily interfaced to test controllers, data acquisition boards and chart recorders.
- Includes high speed analog and digital outputs.
- Intuitive web-based user interface for setup, calibration, and data acquisition.
- Built-in calibration reference and auto-zero features.
- Multiple extensometer calibration files may be loaded for use with one controller.
- Multiple temperature-specific calibrations may be stored.
- Selectable analog and digital filter options from 2 Hz to 3 kHz.
- Ships fully calibrated with electronics (traceable to NPL (UK)) with user specified voltage output.
- Mechanical over-travel protection.
- All standard units meet existing ASTM E399 and E1820 requirements for accuracy.
- Durable stainless steel knife edges.
- Includes high quality foam lined case.
- Rugged, dual flexure design for strength and improved performance. The COD gage is supplied with the revolutionary DT6229 controller. The standard output is 0-10VDC analog signal, factory calibrated with the COD gage. These COD gages use a high-temperature capacitive sensor and do not require any cooling. They will operate up to the maximum temperature limit of most environmental chambers used in materials testing. The Model 7641 is ideal for determination of fracture mechanics parameters such as JIC, KIC, R-curve, fatigue crack growth rate (da/dN), and testing to standards such as E1820, E399, E647, etc. All units can be displaced slightly in compression for ease of installation.

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