

Model 8515C -15,-50 Piezoresistive pressure transducer

Features

- 15 to 50 psia, 200 mV full range
- Low profile, 0.030 inch thin
- Absolute reference



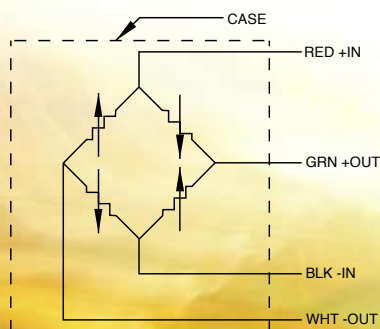
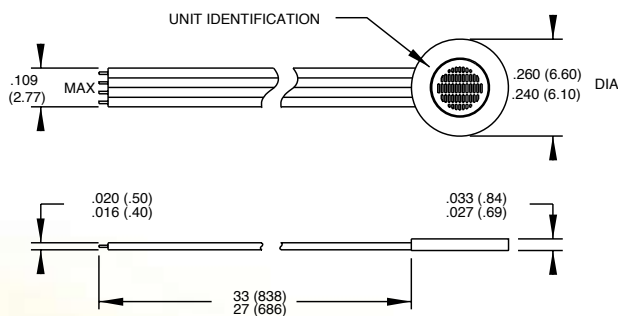
Description

The Endevco® Model 8515C is a rugged, miniature, high sensitivity piezoresistive pressure transducer available in 15 and 50 psia full scale ranges. It is surface-mounted and measures 0.030 inch thin by 0.250 inch diameter (0.76mm x 6.3mm). Full scale output is 200 mV with high overload capability, high frequency response, very low base strain sensitivity and excellent temperature performance.

Because of its very small size, the Model 8515C can be installed on curved surfaces with minimal effect on laminar air or hot gas flow. For a flush fit, the 8515C and leadwires can be recessed into the mounting surface. A protective screen is provided to protect against particle impingement. The Model 8515C is suitable for use on small-scale models in wind tunnel tests, as well as on aerodynamic surfaces during flight tests. Other uses include helicopter or turbine blade surface pressure measurements.

A rubber fairing, part number 30042, is an available accessory for airflow smoothing for flight test applications. Modified versions are available on special order for wider temperature compensation or with rectangular housings.

Endevco Model 136 three-channel system, Model 4428A or 4430A signal conditioner, or Oasis 2000 computer-controlled system are recommended as signal conditioner and power supply.



STANDARD TOLERANCE
INCHES (MILLIMETERS)
.XX = +/- .03 (X = +/- .8)
.XXX = +/- .010 (XX = +/- .25)

RESONANCE FREQUENCY [6]	Hz	180 000	320 000
NON-LINEARITY AT 3X RANGE	% 3X FSO	1.0	1.0
THERMAL TRANSIENT RESPONSE PER	psi/°F	0.003	0.005
ISA-S37.10, PARA 6.7, PROCEDURE I [7]	psi/°C	0.005	0.009
PHOTOFLASH RESPONSE [8]	Equiv. psi	0.25	0.8
	ms	1	1