

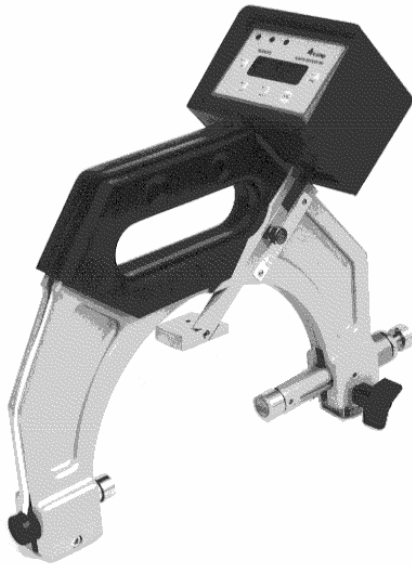
ALBION DEVICES, INC.

Temperature Compensation for Precision Gages

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Temperature Compensated Variable Snap Gages



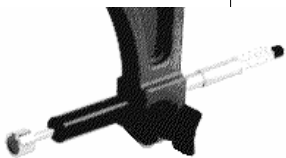
Available in 2" variable ranges from 3" - 5" up to 19" - 21".

Equipped with Albion's standard T°Comp 100 temperature compensating indicator with standard LVDT travel of $\pm .02$ inch and $.0001$

inch resolution (optional $.00005$ inch resolution, with $\pm .01$ inch LVDT travel).

Display in inch or metric. See over for further details on T°Comp 100 capability.

Also available with micrometer attachment on opposing anvil, for applications requiring frequent nominal dimension adjustment. A single setting master is all that is required for the entire range of the gage, while the micrometer is used to adjust for difference between size of master and nominal size.



if all were at 68°F(20°C).

SPECIFICATIONS

Measurement range/LVDT travel: $\pm .02$ inch (± 0.5 mm)

Resolution: $.0001$ inch ; $.00005$ inch or 0.001 mm

Repeatability: $\pm .0001$ inch (± 0.0025 mm)

Temperature ranges

Environmental: 32°F(0°C) - 125°F(51°C)

Workpiece: 32°F(0°C) - 150°F(65°C)

Humidity range: Maximum 95% relative non condensing.

Response times

10°F change -	2.0 secs, flat surface
	3.5 secs, curved surface
30°F change -	2.4 secs, flat surface
	5.5 secs, curved surface

Electrostatic discharge: Tested to + 15kv (I.E.C. spec. 801-2, 1984)

Communications output: RS-232, adjustable baud rate from 75 to 4800.

Controller

Weight: 10 oz Size: 3.75"x2.575"x2.375"

Software options: Peak reading; T.I.R.; Custom development also available. Call Albion to discuss your specifications.



A L B I O N

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T°Comp ("tee-comp")

Temperature compensating digital indicator. User programmable with separate coefficients of expansion for part, master and gage. Adaptable to bench top and hand held gages. Available with workpiece temperature sensor incorporated in .5" diameter flat faced indicator probe tip (T°Comp 100) or with separate probe and sensor (T°Comp 110, see picture below). Over 90% thermal compensation efficiency.



T°Comp 100

Resolution to .0001" or .00005", with measurement range of 40 thousandths and 20 thousandths respectively; inch or metric modes; RS232 output available; rechargeable battery or A/C powered; user programmable tolerance lights, liquid crystal digital display,

available with protective metal shroud for rough working environments.



T°Comp 110

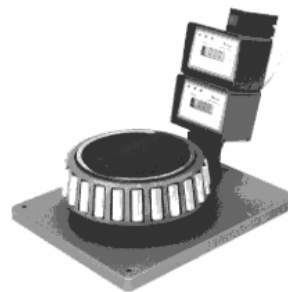
Senses temperatures of master, workpiece and gage while measuring, makes adjustment in real time, and instantly displays output as

T°Comp Applications

T°Comp, like regular dial and electronic indicators, can be used in many applications. Here are two examples:

Series 8000 Stack Gage, Temperature Compensated, for Railroad Bearings.

Twin T°Comp 110 temperature compensating indicators, mounted in custom fixturing, measure IDs of bearing races. Available in standard RR race sizes, with size adjustment kits.



A sensor mounted in the base contacts the under side of a bearing or master when in position. Another sensor monitors gage temperature. Controllers display compensated readings at two different heights in the bore.

Temperature Compensated Bar Gage

A range of bar gages from various manufacturers can be fitted with T°Comp 110 temperature compensating indicators.

The workpiece temperature sensor (which also



senses the temperature of the master) is mounted in a suitable location so that it makes contact during measuring operations.

Optional peak reading software captures high point reading as gage is swung. Call Albion to discuss your specific application.