Dynisco

MELT PRESSURE MEASUREMENT

TERMS & DEFINTIONS

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Accuracy

Dynisco's Defines Accuracy as

The combined error due to nonlinearity, repeatability, and hysteresis expressed as a percentage of full scale output.

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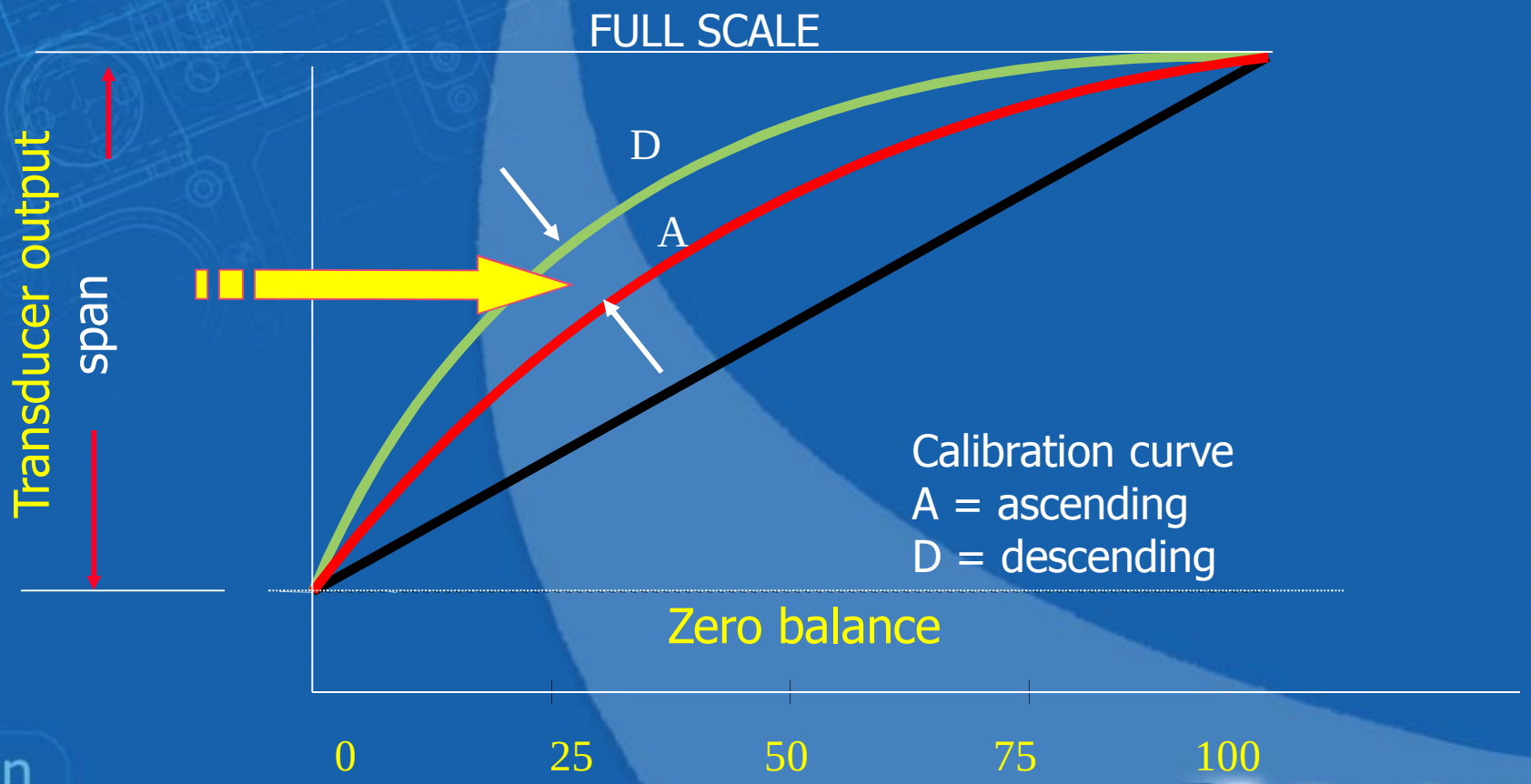
Hysterisis

Deviation in output within the transducer range when first approaching a given point with increasing and then decreasing pressure.



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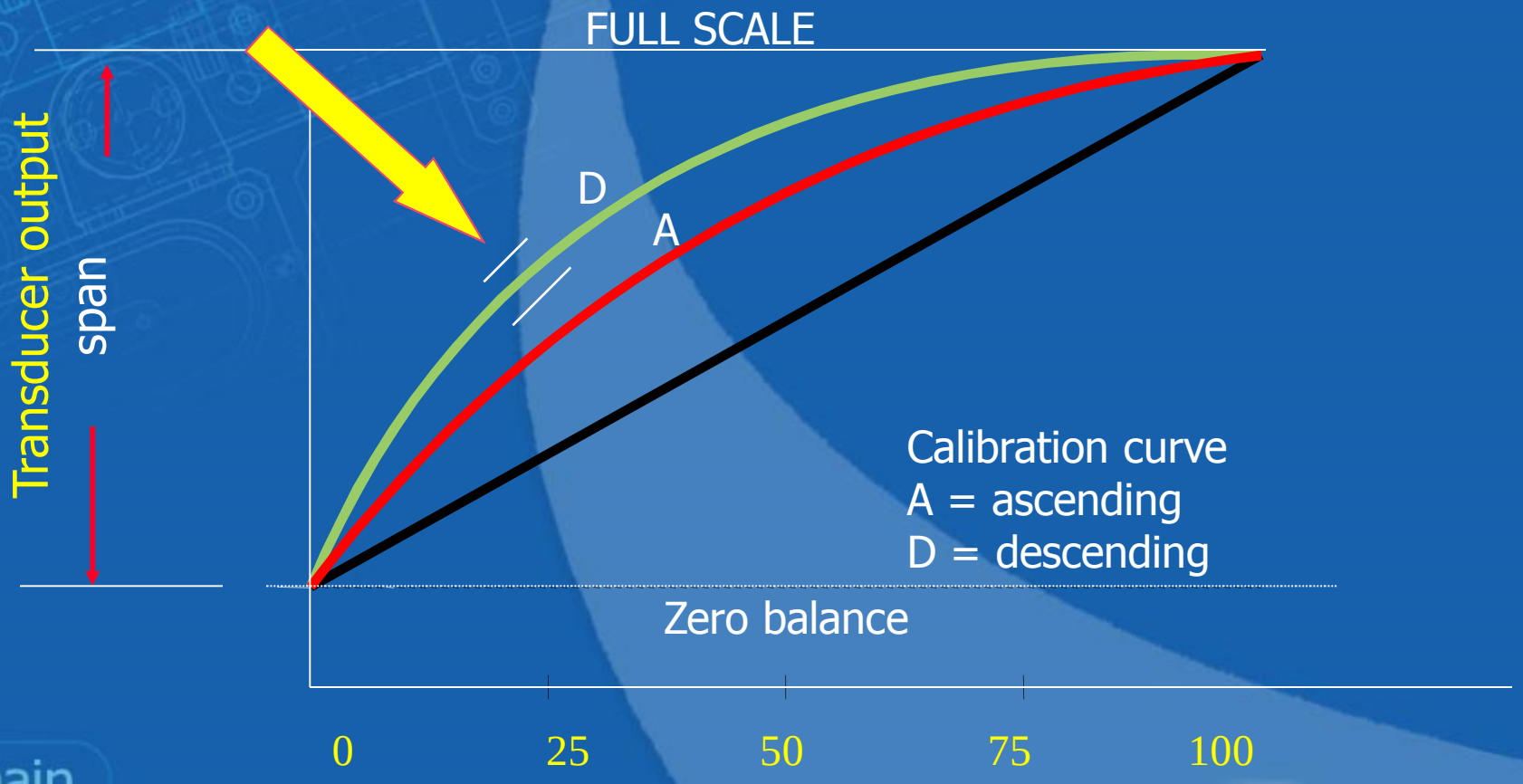
Repeatability

The ability of a transducer to reproduce readings under identical conditions of pressure and temperature.



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Linearity

- The maximum deviation of the transducer output from a defined straight line during a calibration cycle.
- Dynisco uses the Best Fit Straight Line (BSFL).
- The BSFL is the deviation of data points from a straight line drawn through the data points which yields minimum deviations both above and below the straight line.

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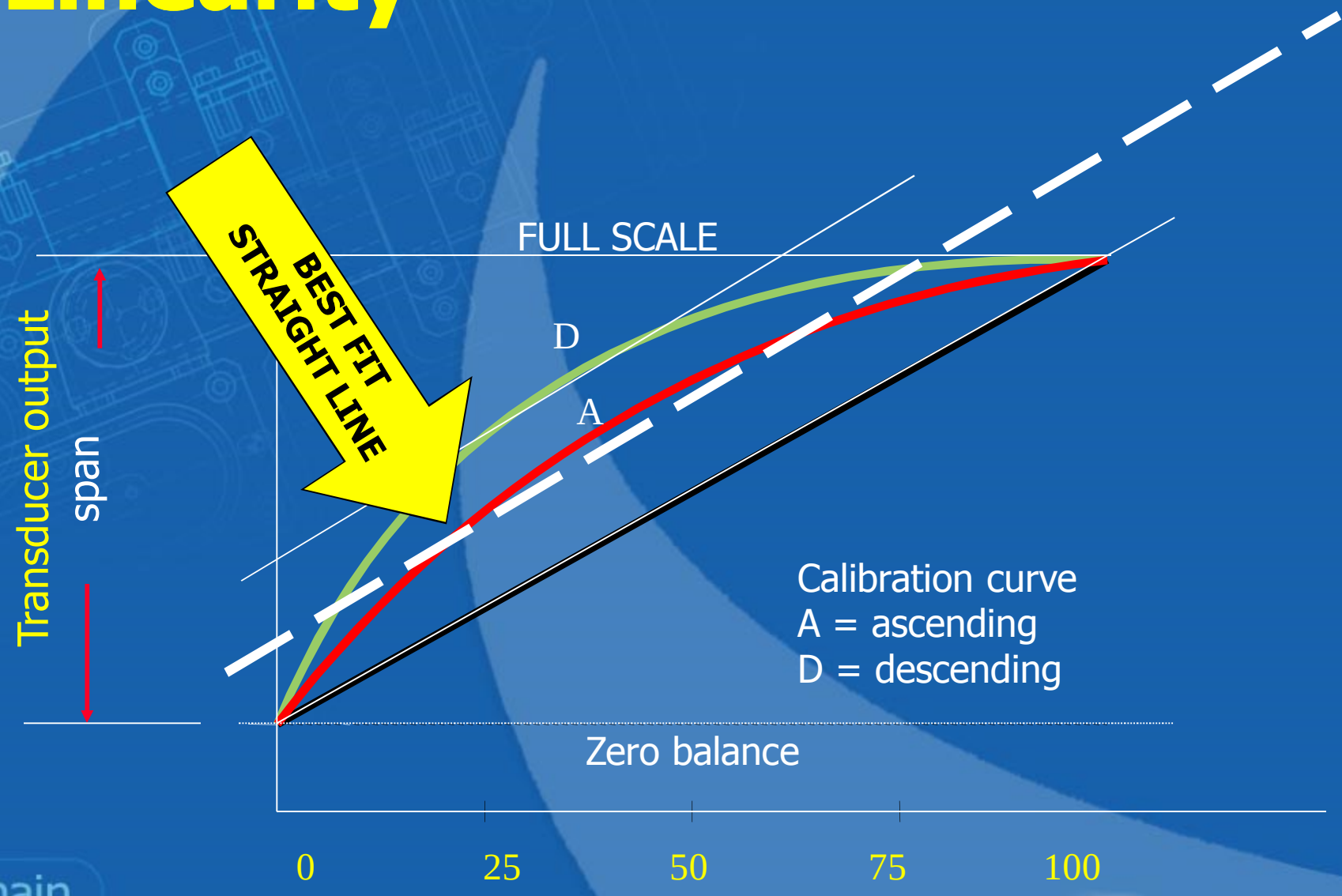
Linearity



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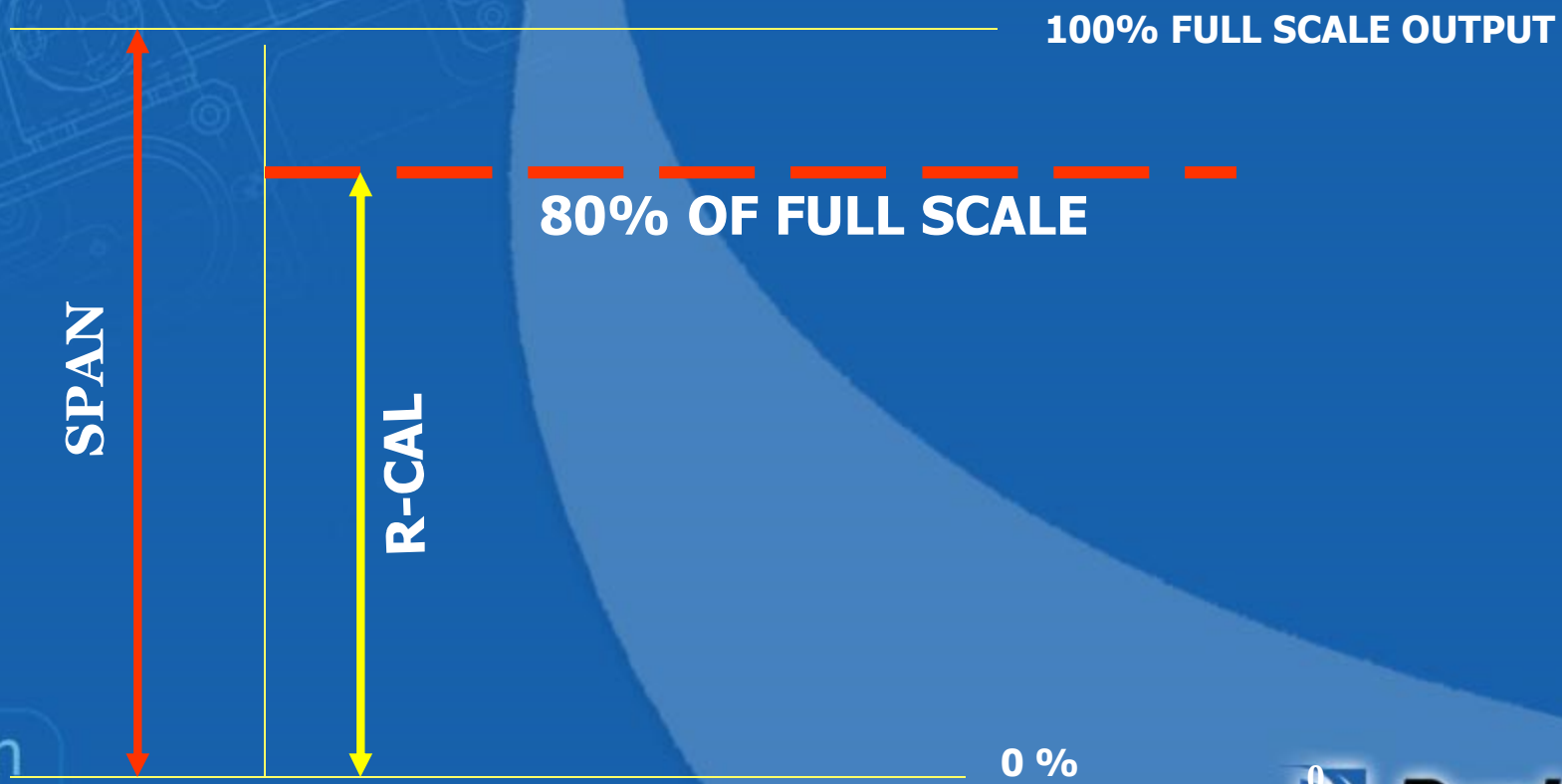
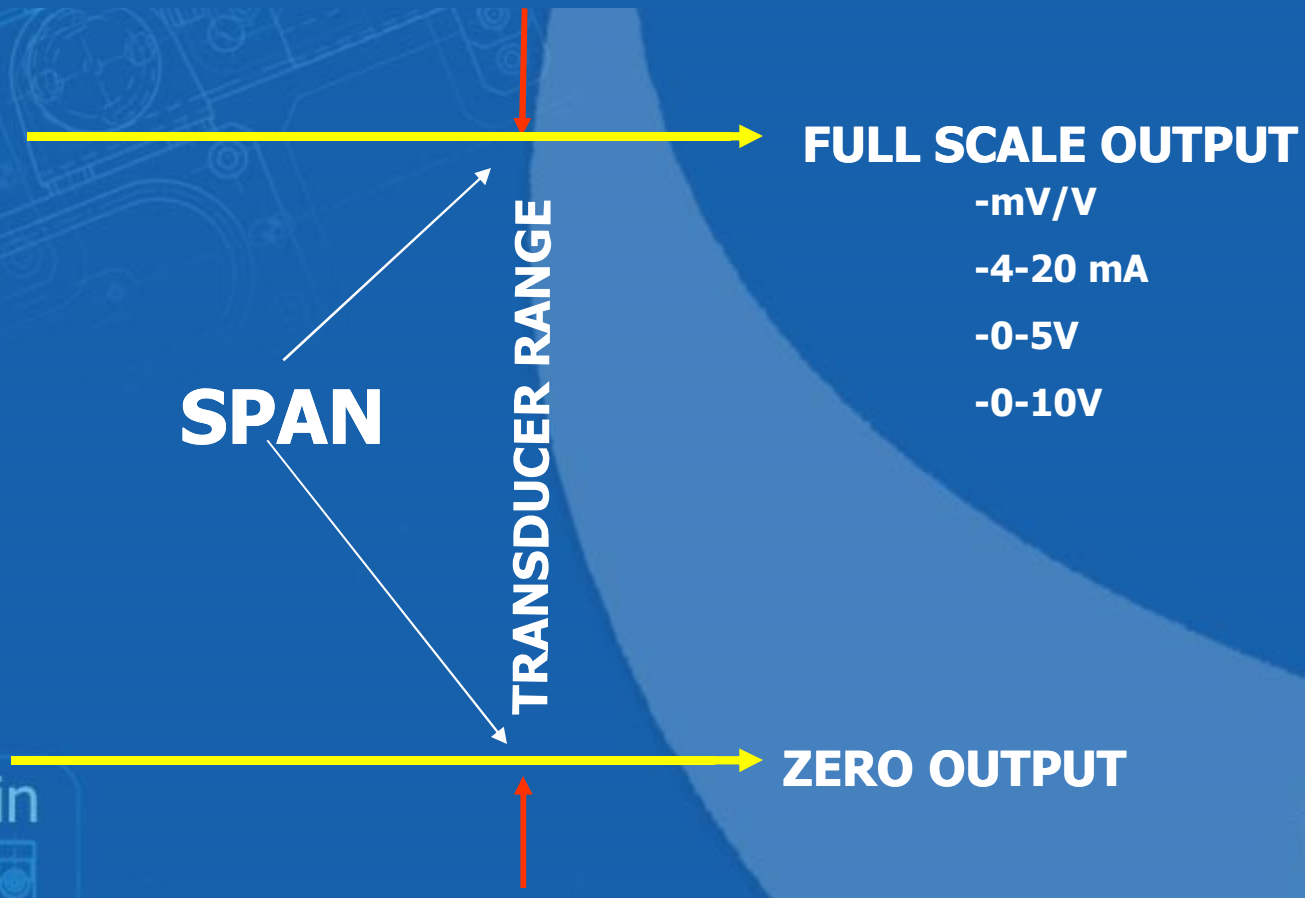
Shunt Calibration "R-Cal"

All Dynisco Melt Pressure Transducers include a built-in 80% of full scale "R"-CAL. This is accomplished using an internal resistor to unbalance the bridge electrically, rather than strain induced by applied pressure. "R"-Cal provides a quick and accurate method of transducer-to-instrumentation calibration.



Span

The algebraic difference between the output limits of the range.



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Combined Error

- The total of all deviations of a transducer output from a specified straight line in a constant environment.
- Defined as the sum of the errors due to non-linearity, repeatability, and hysteresis.

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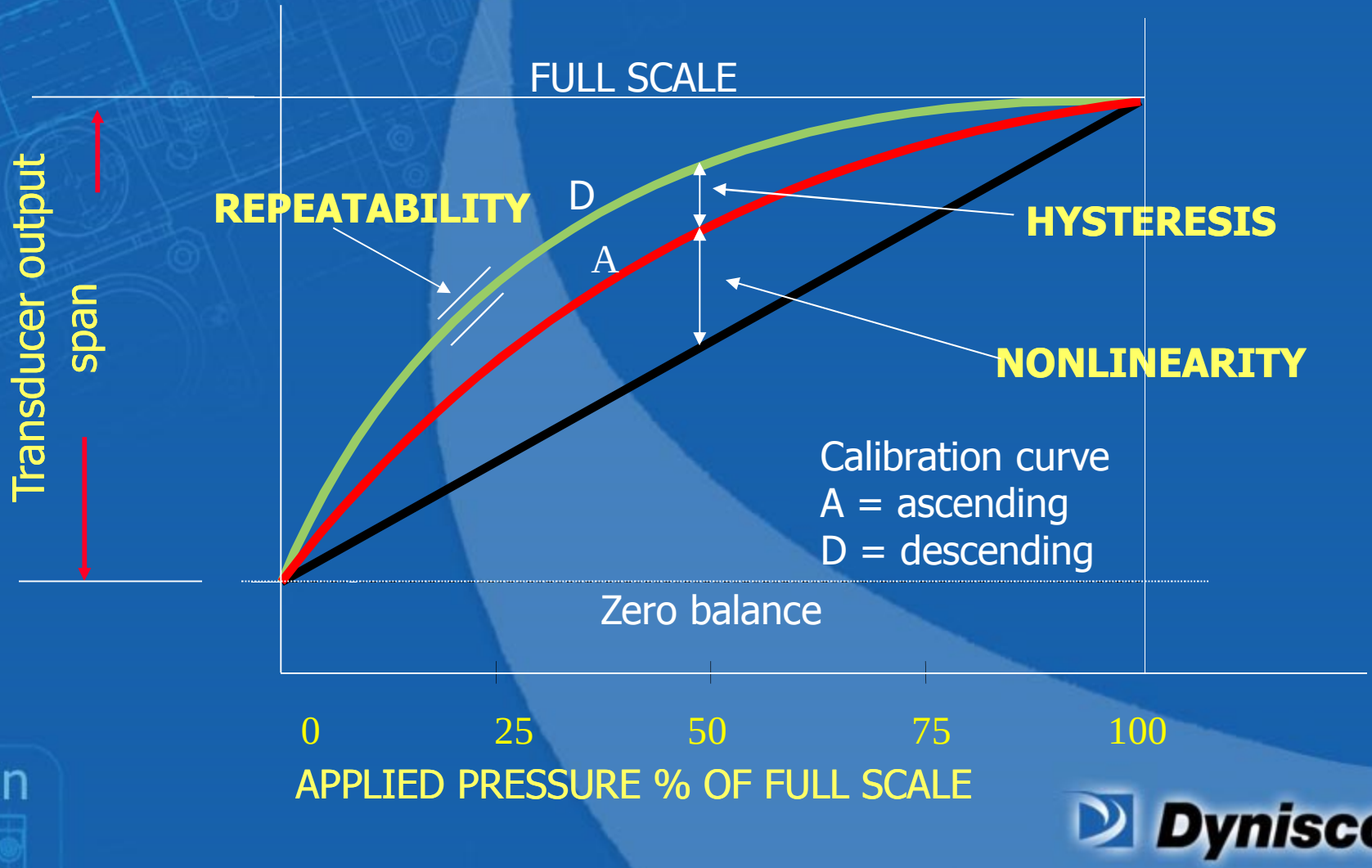
Combined Error

The total of all deviations of a transducer output from a specified straight line in a constant environment. .



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WHAT DO OUR "COMPETITORS" SAY

??????????????

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NOMINAL ACCURACY

They use

"Nominal Accuracy of ± 0.25% or ±0.5%" in their Technical Specifications

Webster's dictionary defines Nominal as:

"So-called: acting or being in name only, but not in reality.

So - what do they *really* mean???

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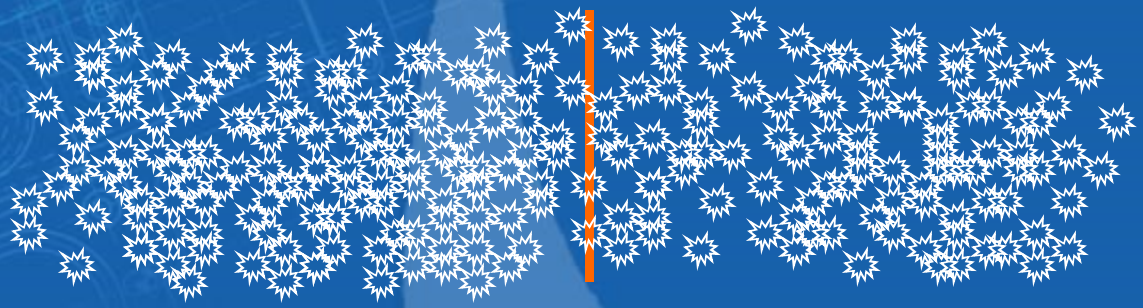
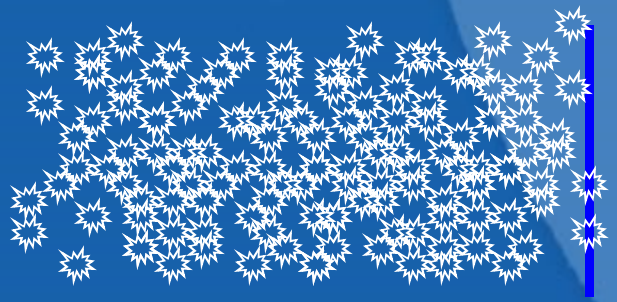
ACCURACY

GEFRAN ISI *(NOMINAL +/- 0.5%)*



0.5% Combined Error

DYNISCO *(+/- 0.5%, Dynisco does not use Nominal)*



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