QUICK START GUIDE

TECO StockRite Series Consistency Transmitters

PRESENTER

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P&P Products Manager

QUICK START GUIDE

- A successful calibration will consist of several steps

  - Define the Sensor
  - Auto Cal the Sensor
  - Set the Strain Factor
  - Setup velocity compensation (optional)
  - Assign Consistency Values

DEFINE THE SENSOR

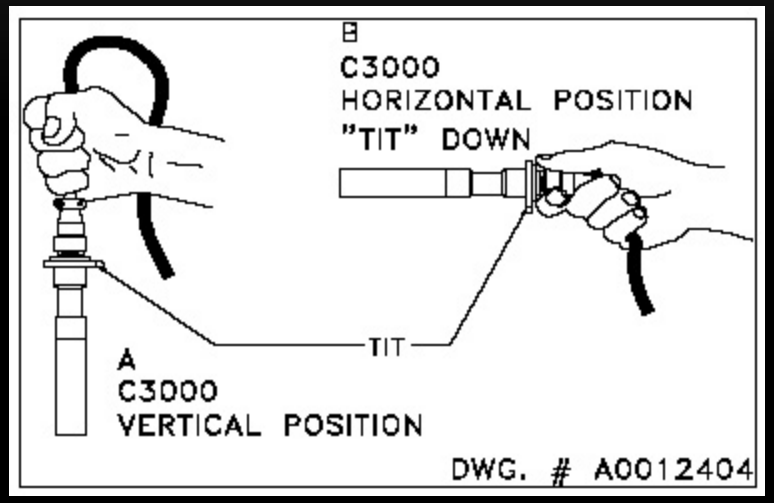
- You have to tell the transmitter what sensor is being used.

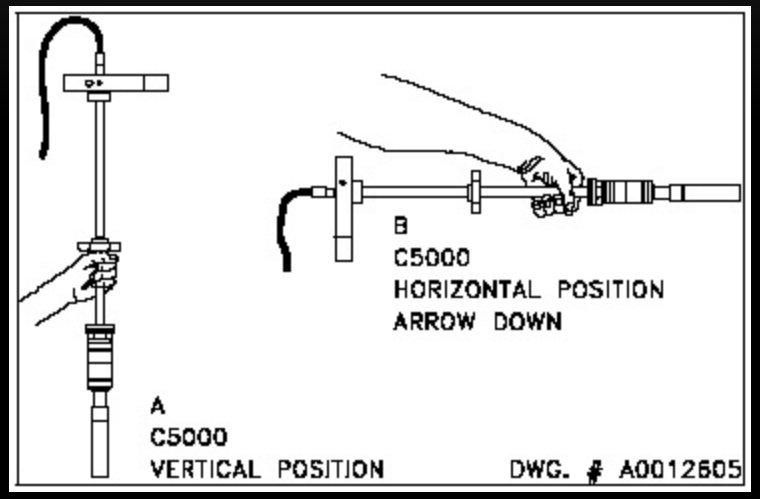
- Specify type, length and material

AUTO CAL THE SENSOR

- This procedure normalizes the response of a sensor using the force of gravity as a reference
- This is useful because you can then swap out normalized sensors and get the same reading without recalibrating
- It also zeros out the effect of gravity on the sensor in its application orientation

AUTO CAL THE SENSOR





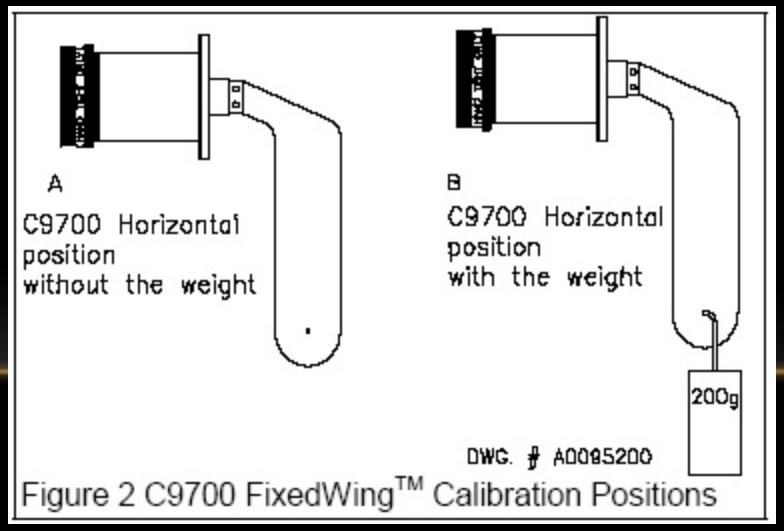


Figure 2 C9700 FixedWing™ Calibration Positions

SET THE STRAIN FACTOR

- The Strain Factor is a sensor gain factor
- It can be used to adjust the output of the transmitter relative to strain based on stock type
- We have pre-programmed the transmitter with strain factors for various furnish types
- These are good starting points, but may need to be adjusted later

SETUP VELOCITY COMPENSATION

- Velocity compensation is recommended for applications with high or variable flow rates

- The C6000 accepts a 4-20ma signal for flow rate input

DEVIATION METER

- At this point, you have setup the system as a deviation meter
- The range of the deviation depends on the values for the consistency span and zero
- Values of 100 and 0 would output 0 to 100%

CONSISTENCY CALIBRATION

- If you want the transmitter to output consistencies directly, you have to adjust the values for the strain factor and the consistency span and zero

- You can let the meter calculate these for you using the built-in routine under “Compute Attributes”

- You can calculate them offline using the formula in the Appendix

BUILT-IN ROUTINE

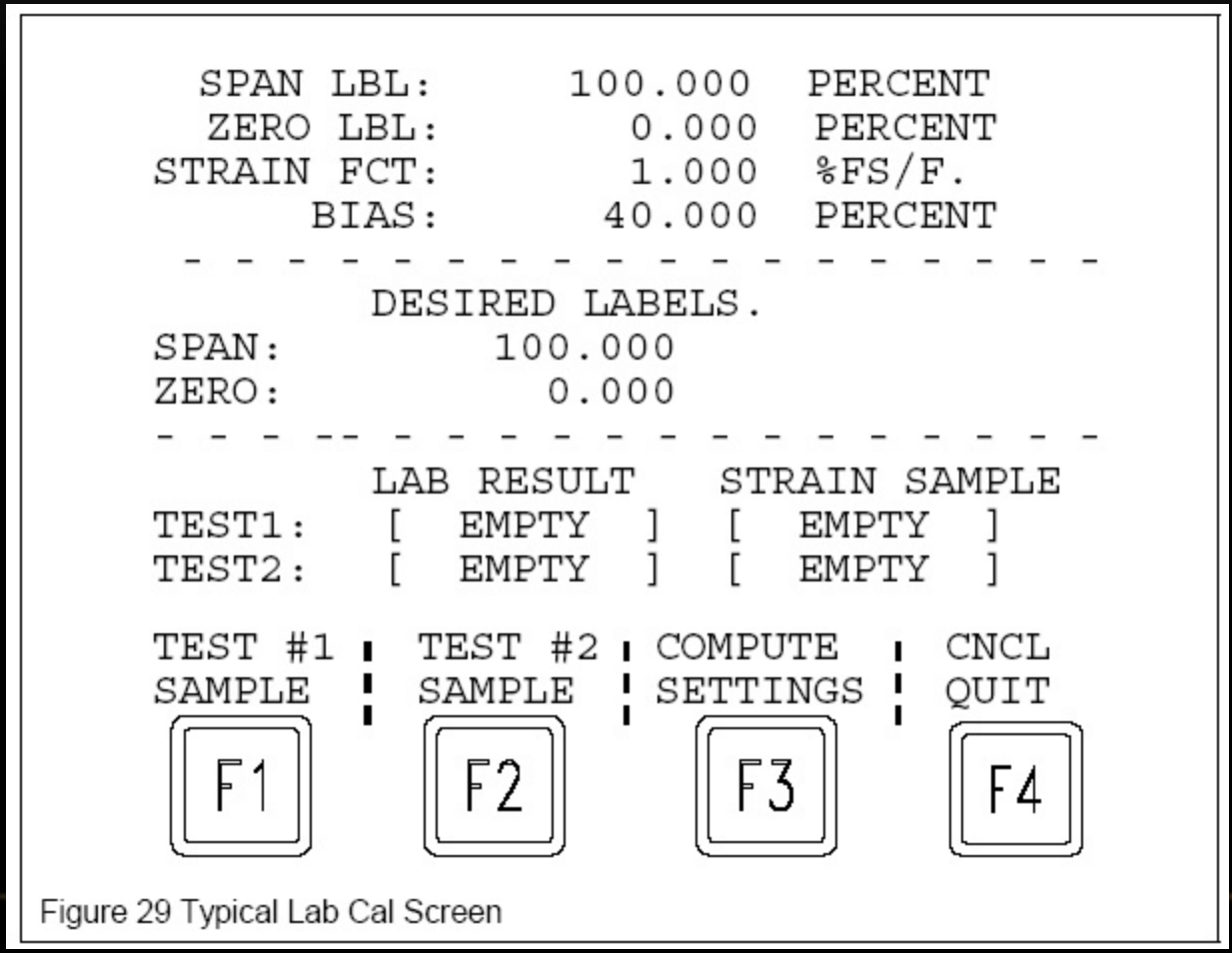
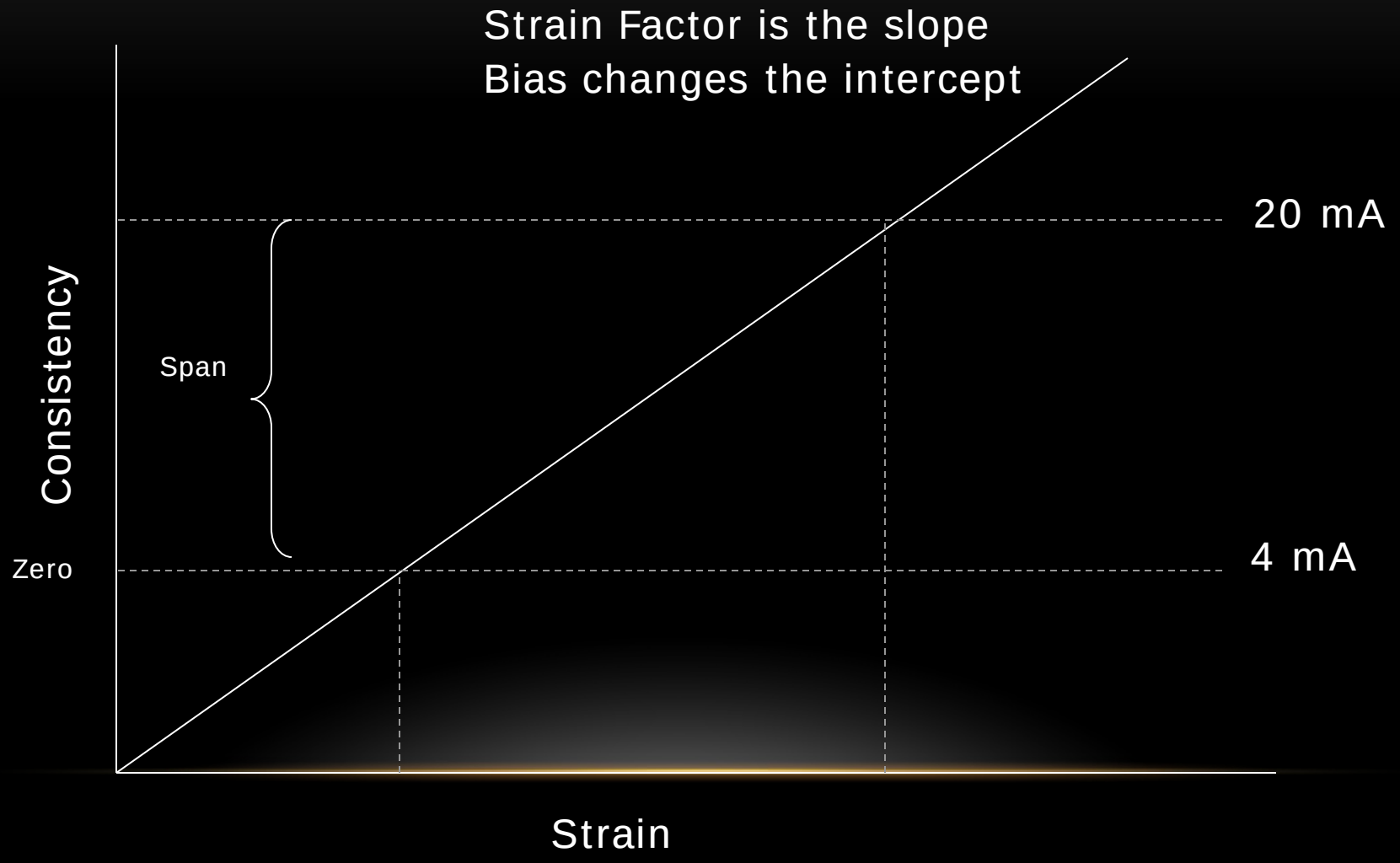


Figure 29 Typical Lab Cal Screen

CONSISTENCY CALIBRATION



FINISHED!

- The system is now calibrated and measuring consistency