

Span and Zero of a Transmitter

Consider a pressure sensor/transmitter that has been calibrated to measure a process pressure between the values of **20 psig and 50 psig**. We say that the range of this sensor/transmitter combination is **20 to 50 psig**. The span of the instrument is the difference between the high and low values of the range. For the pressure instrument we have described, the span is **30 psi**. The low value of the range is often referred to as the zero of the instrument. This value does not have to be zero in order to be called the zero of the instrument. For our example, **the zero of the instrument is 20 psig**.