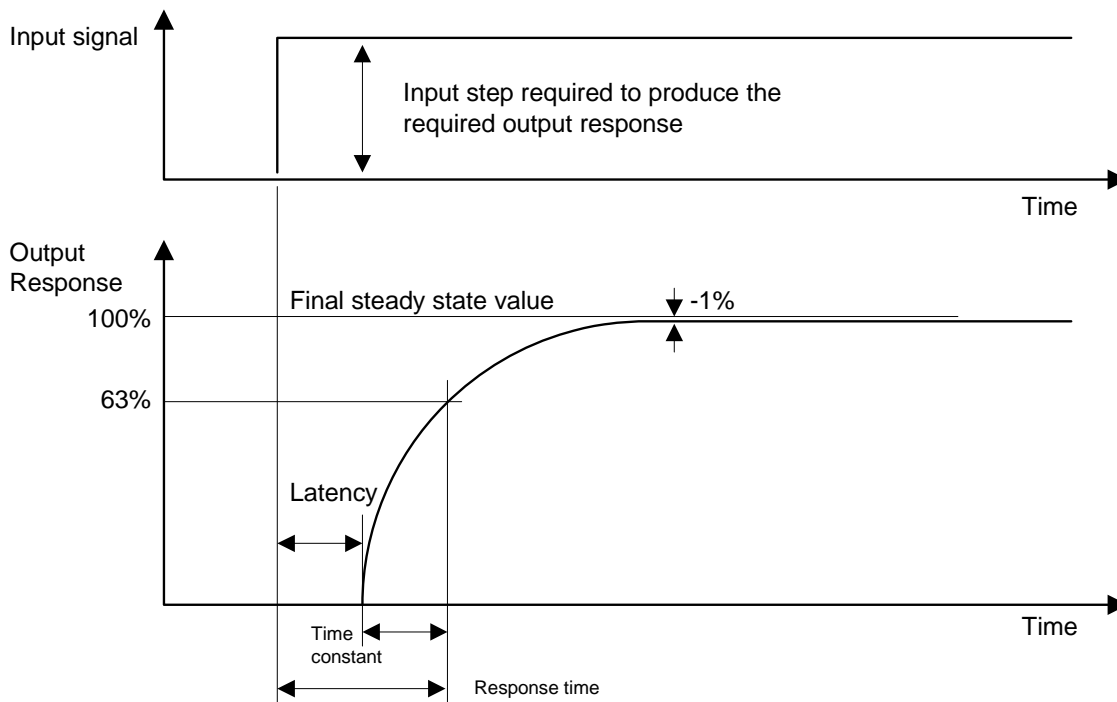


SET47B Speed of Response

Test Description:

This test defines the dynamic response characteristics of the transmitter and measures the speed of response of the output to an input pressure step change. Latency is the time from applied step change until the first response from the unit. One time constant is the time from first response until the output reaches 63% of the full output voltage. The speed of response, or total response time is defined (in this test plan) as the latency plus the time to one time constant. Multiple measurements are taken and average for both latency and time constant.



Effective Speed of response depends on the nominal range of the measuring cell.

Average Response Time (Latency + Time Constant),for SET47 series “all ranges” < 300 mS