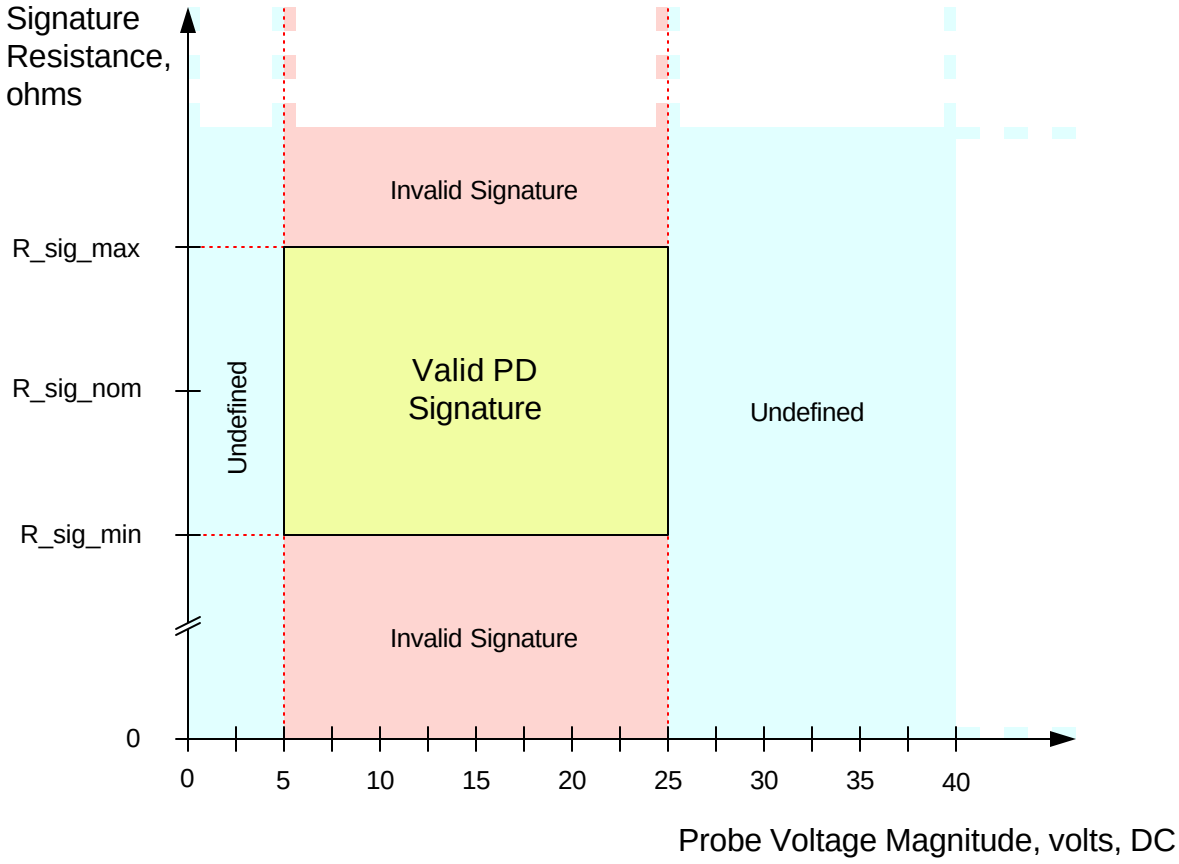


Other Specifications:

1) The maximum value of R_sig should not exceed 60 Kohm (value?) so as not to intersect the minimum output impedance of a PSE

2) R_sig must be capable of handling 60 VDC continuously, or have a means of disconnecting once DTE power is applied

3) Having different "flavors" of discovery, to indicate expected power requirements can be accommodated by using different values of R_sig (this has not been accepted yet as a goal for DTE power)

4) R_sig should not be in series with any diodes, such as bridge rectifier diodes (this should make detection simpler)

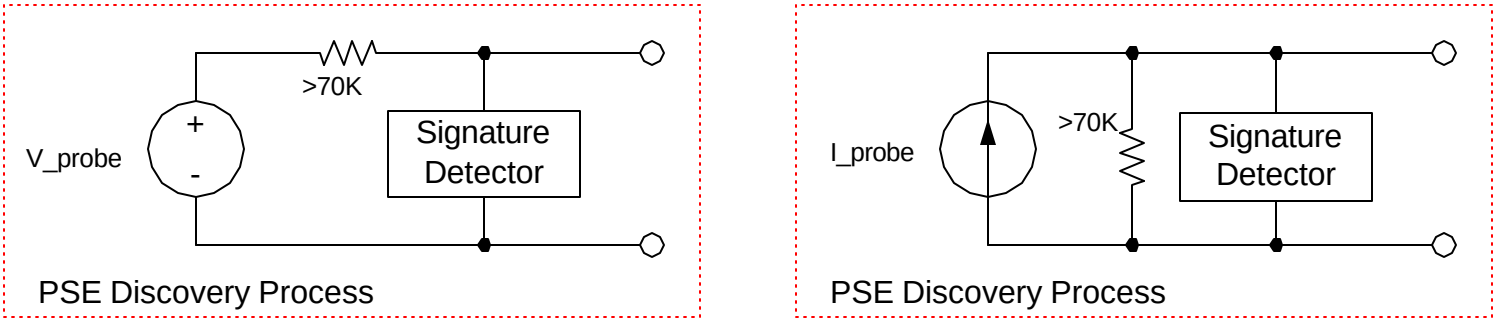
Suggested/Example Values:

Low Watt Flavor
R_sig_max: 26.775 Kohm (+4%)
R_sig_nom: 25.5 Kohm (1% standard E96 value)
R_sig_min: 24.225 Kohm, (-4%)

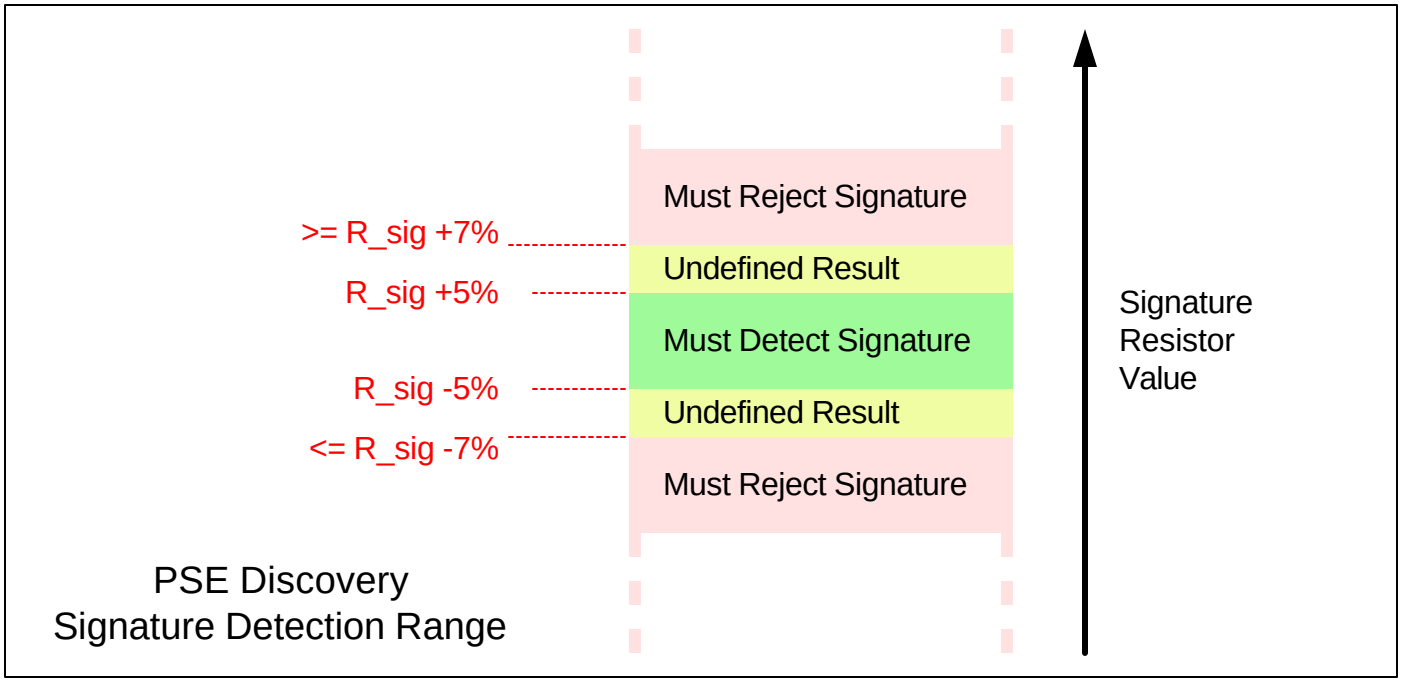
Medium Watt Flavor:
30% higher values than Low Watt Flavor

High Watt Flavor:
30% higher values than Medium Watt Flavor

PSE Discovery Block Diagrams



OR



PSE Discovery Specifications:

1) PSE Discovery Output Impedance must be greater than 70 Kohm for any frequency below 100 Hz, whether or not the PSE power is on, and whether or not the discovery process is running

2) The PSE Discovery output capacitance must be less than 10 uF (value?)

3) The PSE discovery compliance voltage; must include at least one detection with an open circuit voltage that is above 20 volts. This will help to reject legacy devices with 24V power supplies.

4) The PSE discovery compliance voltage must not exceed 30 volts (value) at any time, in order to avoid reaching the power up range of the PD power supply

5) The PSE must be able to sustain the condition of being driven by +/- 60 VDC continuously

6) The PSE must never falsely detect another PSE (goal)