

Quick Meas: Counter measurement (*reciprocal* counter)

Help:

The screenshot shows the Agilent Technologies oscilloscope interface. At the top, the text "Agilent Technologies" is displayed. Below it, the channel configuration is "1 1.00V/". The time scale is "0.0s" and the horizontal scale is "20.0µs/". The vertical scale is "Auto" and the trigger level is "F 1" (circled in blue). The horizontal position is "2.40V". A help text box is overlaid on the screen, containing the following text:

The Counter measurement counts trigger level crossings at the selected trigger slope and displays the results in Hz. The gate time for the measurement is automatically adjusted to be 100 ms or twice the current time window, whichever is longer, up to 1 second. Any channel except Math may be selected for the source. Only one Counter measurement may be displayed at a time. Unlike other measurements, the Delayed timebase window does not gate the Counter measurement.

The Y cursor shows the edge threshold level used in the measurement.

The Counter measurement can measure frequencies up to 125 MHz. The minimum frequency supported is $1/(2 \times \text{gate time})$.

At the bottom of the screen, the measurement results are displayed: "Count(1): 1.2000kHz", "Freq(1): No edges", and "Rise(1): 14.4ns". Below these are buttons for "Source 1", "Select: Counter", "Measure Counter", "Clear Meas", "Settings", and "Thresholds".

Delayed sweep (for RiseTime meas) / **Freq** (for Ch1 - NOT valid) / **Counter** (for Ch1 - valid)

The screenshot shows the Agilent Technologies oscilloscope interface with a delayed sweep measurement. The channel configuration is "1 1.00V/". The time scale is "5.00µs/" and the horizontal scale is "20.0µs/". The vertical scale is "Auto" and the trigger level is "F 1". The horizontal position is "2.40V". The signal is a square wave with a rising edge. The measurement results are displayed: "Count(1): 1.2000kHz", "Freq(1): No edges", and "Rise(1): 12.45ns". Below these are buttons for "Main", "Delayed" (checked), "Roll", "XY", "Vernier", and "Time Ref Center".