

2009-11-10 TeK Scope Commands

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1:29 PM

Scopes

- DRF1 Pinchoff scope is pbar-scope04. GPIB connection is off of MCR02, GPIB address 04.

Useful Scope Commands

- **FPANEL Commands**
 - FPAnel:PRESS CH1
 - Selects channel 1
 - FPAnel:PRESS OFF
 - Turns off selected channel
 - FPAnel:TURN { [GPKNOB | HORZPOS | HORZSCALE | INTENSITY | TRIGLEVEL | VERTPOS | VERTSCALE], number}
 - Settings that can be changed using the front panel knob.
 - This can only be used for sets, not read backs.
 - A comma separates the control knob argument from the rotation value.
 - Number = rotation value. The range of units depends on which front panel knob is being turned.
 - A few examples:
 - ◆ FPAnel:TURN HORZPOS, number
 - ◇ Changes horizontal position. number can be + or -.
 - ◆ FPAnel:TURN HORZSCALE, number
 - ◇ Changes the horizontal scale. number can be + or -.
 - ◆ FPAnel:TURN VERTPOS, number
 - ◇ Changes vertical position. number can be + or -.
 - ◆ FPAnel:TURN VERTSCALE, number
 - ◇ Changes the vertical scale. number can be + or -.
 - ◆ FPAnel:TURN GPKNOB, number
 - ◇ General purpose knob
 - ◇ Changes ... number can be + or -.
 - ◆ FPAnel:TURN INTENSITY, number
 - ◇ Changes ... number can be + or -.
 - ◆ FPAnel:TURN TRIGLEVEL, number
 - ◇ Changes ... number can be + or -.
- **Horizontal Scale Commands**
 - HORizontal ?
 - Returns all oscilloscope horizontal settings
 - ◆ {resolution, trigger position, horizontal scale, delay state, horizontal delay time}
 - Examples:
 - ◆ Brian's Default {HIGH;3.6E0;4.0E-6;1;3.11E-4}
 - ◆ BROFF Tuning {HIGH;3.6E0;4.0E-6;1;3.11E-4}
 - ◆ PH Err Offset Tuning {HIGH;3.6E0;2.0E-6;1;3.05E-4}
 - ◆ LLRF Card tuning {HIGH;3.6E0;4.0E-9;1;2.5E-4}
 - ◆ Pat's Default {HIGH;3.6E0;4.0E-5;0;1.78E-4}
 - HORizontal:DElay:STATE {number | ON | OFF}
 - Sets or returns the horizontal delay on or off.
 - ◆ Delay off means that the acquisition is positioned relative to the trigger position.
 - ◆ Delay on means that the acquisition is positioned relative to the delay time.

- CH1:Scale {number}
 - Sets or specifies the vertical gain of the specified channel
 - Range is 10V per division to 1mV per division when using a 1x, 1Mohm, voltage probe.
- CH1:BANDwidth {TWEnty | ONEFifty | FULL}
- Sets or queries the bandwidth setting for the specified channel
- CH1:COUPling {AC | DC | GND}
 - Sets or queries the input attenuator coupling setting of the specified channel.
- CH1:DESKew {time}
 - Sets or queries the deskew time for channel
 - Range from -10ns to +10ns
- CH1:IMPedance {FIFty | MEG}
- Sets or returns the channel probe impedance
- CH1:INVert { number | ON | OFF}
 - Sets or returns the specified channel invert setting
 - 0 = Off
 - 1 = On
- CH1:Probe {number}
 - Sets or returns the gain factor of the probe that is attached to a specified channel.
 - Example: 1.0E-1 for a 10x probe.
- CH1:YUNit {V | A}
 - Set or returns the units of the specified channel
 - V = volts
 - A = amps
- **MISC Commands**
 - CLEARMenu
 - Clears the current menu off of the display
 - DISplay:INTENSITY:WAVEform number
 - Number = 0 to 100 percent.