

OSCILLOSCOPE FLUKE



mode SINGLE SHOOT

Pour acquérir un signal qui n'est pas périodique ou très basse fréquence, la synchronisation de l'oscilloscope Fluke doit être paramétrée en mode Single Shoot avec une attention particulière au réglage du niveau de synchronisation (Level).

accès au mode Single Shoot : bouton TRIGGER

Setting Trigger Level and Slope

The Connect-and-View™ function enables hands-off triggering to display complex unknown signals.

When your test tool is in manual range, do the following:



Perform an auto set. **AUTO** appears at the top right of the screen.

Automatic triggering assures a stable display of virtually any signal.

From this point, you can take over the basic trigger controls such as level, slope and delay. To optimize trigger level and slope manually, do the following:

- 1 **TRIGGER** Display the **TRIGGER** key labels.
- 2 **F2** Trigger on either positive slope or negative slope of the chosen waveform.
 In Dual Slope Triggering (X) the test tool triggers on both positive slope and negative slope.
- 3 **F3** Enable the arrow keys for manual trigger level adjustment.

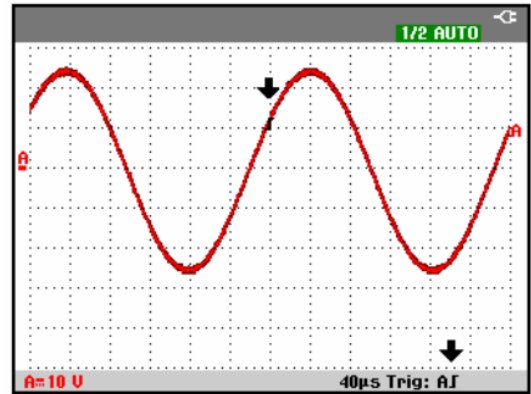


Figure 23. Screen with all Trigger Information

- 4 Adjust the trigger level.

Observe the trigger icon that indicates the trigger position, trigger level, and slope.

At the bottom of the screen the trigger parameters are displayed (See Figure 23). For example, **Trig : AJ** means that input A is used as the trigger source with a positive slope.

When a valid trigger signal is found, the trigger key will be lit and the trigger parameters appear in black.

When no trigger is found, the trigger parameters appear in gray, and the key light will be off.

F2	déclenchement sur le front montant ou descendant	
F3	désactive le mode auto-level pour fixer le niveau de déclenchement manuellement. Cela suppose que l'excursion du signal est connue, la voie A ou B, correctement paramétrée pour que le signal soit contenu dans la fenêtre.	
F4	<ol style="list-style-type: none"> 2 F4 Open the TRIGGER OPTIONS menu. 	Choisir On Edges puis <ol style="list-style-type: none"> 4 Select Single Shot.
	<p>The word MANUAL appears at the top of the screen indicating that the test tool is waiting for a trigger. As soon as the test tool receives a trigger, the waveform is displayed and the instrument is set to hold. This is indicated by the word HOLD at top of the screen.</p> <p>The test tool will now have a screen like Figure 25.</p> <ol style="list-style-type: none"> 5 HOLD RUN Arm the test tool for a new single shot. 	

Figure 25. Making a Single Shot Measurement

OSCILLOSCOPE FLUKE



Réglage des voies A et B

sélection de la voie →

attente de déclenchement (RUN) →

réglage de l'échelle →

réglage de la position du 0 →

Mode automatique (sur un signal périodique) →

Régler les voies

INPUT A ON OFF	COUPLING DC AC	PROBE A 1:1...	INPUT A OPTIONS..
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Coupling AC

Probe réglage de la sonde de Tension ou courant

F3 Open the PROBE ON A menu.

PROBE ON A		
Probe Type:	Attenuation:	
Voltage	1:1	20:1
Current	10:1	200:1
Temp	100:1	
	1000:1	

PROBE CAL... CLOSE

Filtrer un signal bruité

To suppress high frequency noise on waveforms, you can limit the working bandwidth to 20 kHz or 20 MHz. This function smoothes the displayed waveform. For the same reason, it improves triggering on the waveform.

To choose HF reject on for example input A, do the following:

- 1 **A** Display the INPUT A key labels.

INPUT A ON OFF	COUPLING DC AC	PROBE A 1:1...	INPUT A OPTIONS..
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- 2 **F4** Open the INPUT A menu.

INPUT A	
Polarity: Normal Inverted Variable	Bandwidth: Full 20 kHz (HF reject) 20 MHz
- 3 **ENTER** Jump to **Bandwidth:** and select **20kHz (HF reject)** to accept the bandwidth limitation.

Ajouter des mesures

Making Automatic Scope Measurements

The test tool offers a wide range of automatic scope measurements. In addition to the waveforms you can display four numeric readings: **READING 1 ... 4**. These readings are selectable independently, and the measurements can be done on the input A, input B, input C or input D waveform

To choose a frequency measurement for input A, do the following:

- 1 **SCOPE** Display the SCOPE key labels.

READINGS ON OFF	READING ...	WAVEFORM OPTIONS...
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- 2 **F2** Open the **READING ..** menu.

READING 1				
on A	V ac	A ac...	Hz	Temp...
on B	V dc	A dc...	Rise time	dB...
on C	V ac+dc	A ac+dc...	Fall time	
on D	Peak...	Power...	Pulse...	
Off	V pvm...	Phase	Duty...	
- 3 **F1** Select the reading number to be displayed, for example **READING 1**
- 4 **ENTER** Select **on A**. Observe that the highlight jumps to the present measurement.

- 5 **ENTER** Select the Hz measurement.

Observe that the top left of the screen displays the Hz measurement. (See Figure 8.)

To choose also a **Peak-Peak** measurement for Input B as second reading, do the following:

- 1 **SCOPE** Display the SCOPE key labels.

READINGS ON OFF	READING ...	WAVEFORM OPTIONS...
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- 2 **F2** Open the **READING ..** menu.

READING 1				
on A	V ac	A ac...	Hz	Temp...
on B	V dc	A dc...	Rise time	dB...
on C	V ac+dc	A ac+dc...	Fall time	
on D	Peak...	Power...	Pulse...	
Off	V pvm...	Phase	Duty...	
- 3 **F1** Select the reading number to be displayed, for example **READING 2**
- 4 **ENTER** Select **on B**. The highlight jumps to the measurements field.