## **Setting Up Limit Channels**

In some cases, monitor accelerometers placed on the DUT will want to be limited to ensure that the DUT itself does not experience increased dangerous levels. To do this, Limit Channels can be enabled to make sure that these levels are not reached. Here is how to set this up.

## 1. Go to Setup → Test Configuration → Limit Channels

2. Select the channel that is to be limited and check the **Enabled** box.

3. A limit profile window will open. Specific High Abort and High Alarm limits can be set up.

4. A notching limit can also be created. This type of limit will decrease the drive output to make sure that the limit is not met.

G Test Configurations for R	andom1	[Random]					?	
Limit channels	*	Frequency domain Ti	me domain Adva	anced limit User	-defined limit			
Shaker parameters		Fill down Fill to						
Test parameters	ľ	Location ID	Enabled	Edit				
Pre-test parameters		Ch1		Edit				
Test profile		Ch2		Edit				
RMS limits		Ch3		Edit				
Run schedule		Ch4		Edit				
Limit channels		Ch5		Edit				
Event actions		Ch6		Edit				
File directory		Ch7		Edit				
Save/Recording setup		Ch8		Edit				
Config. library 🔻						<u>0</u> K	<u>C</u> ar	10

mit Profi								Charles and Charles	v dB
	(g)²/Hz				HighAt	bort(f) <mark>-                                   </mark>	lighAlarm(f)	I Show	100
0.01 -					profile	(f)		Show	v profile
0.01								Im	nort
									portan
0.001								Exp	port CSV
0.0001								Edir	t table
								R	escale
							Frequency (Hz)		
	20	100				1000	2000	Ins	sert row
High ab	bort 🛛 High alarm	Notching Low alarm	Low abort	🗷 Define all li	mits together				
All limits	•							Rem	nove row
	Frequency	Reference		High abort	High alarm			Cle	ar table
	(Hz)	((g)²/Hz)	Enable	(dB)	(dB)				
	20	0.0010878		6	3			F	Fill all
			$\sim$						
	2000	0.0010878		6	3			Fil	l down
								Fill	range
								Digit	tal output
								]	-
								ок	Cance
mit Profi	ile For Channel: Ch2							ок	Cance ?
mit Profi	ile For Channel: Ch2					Notching	- profile(f)	ОК П Show	Cance ? v dB
mit Profi	ile For Channel: Ch2					Notching		OK Show Show	Cance ? v dB v profile
mit Profi	ile For Channel: Ch2					Notching	- profile(f)	OK Show Show	Cance ? v dB v profile
mit Profi 0.1	ile For Channel: Ch2					Notching —		OK Show Show	Cance ? v dB v profile port
mit Profi 0.1 - 0.01 -	ile For Channel: Ch2					Notching —		OK Show Show Exp	Cance ? v dB v profile port port CSV
mit Profi 0.1 - 0.01 -	ile For Channel: Ch2					Notching —	- profile(f)	OK Show Show Exp	Cance ? v dB v profile port
mit Profi 0.1 - 0.01 - 0.001 -	ile For Channel: Ch2					Notching	_ profile(f)	OK Show Show Exp Edi	Cance ? v dB v profile port port CSV t table
mit Profi 0.1 - 0.001 - 0.0001 -	ile For Channel: Ch2					Notching	_ profile(f)	OK Show Show Imp Exp Edi	Cance ? v dB v profile port bort CSV t table escale
0.1 - 0.01 - 0.001 - 0.0001 -	ile For Channel: Ch2					Notching —	- profile(f)	OK Show Show Exp Edi R	Cance ? v dB v profile port port CSV t table escale
mit Profi 0.1 - 0.01 - 0.001 -	ile For Channel: Ch2					Notching	- profile(f)	OK Show Show Exp Edi R	Cance ? v dB v profile port port CSV t table escale escale
0.1 - 0.01 - 0.001 - 0.0001 -	ile For Channel: Ch2	100		Define all li	mits together	Notching	- profile(f)	OK Show Show Edi Edi	Cance ? v dB v profile port coort CSV t table escale escale
mit Profi 0.1 - 0.001 - 0.0001 - High ak	ile For Channel: Ch2	100		Define all li	mits together	Notching	- profile(f)	OK Show Show Imp Exp Edi Ren	Cance ? v dB v profile port oport CSV t table escale escale escale
mit Profi 0.1 - 0.001 - 0.0001 - High ab	ile For Channel: Ch2	Notch Acc	Low abort	Define all li	mits together	Notching	- profile(f) 	OK Show Show Exp Edi Ren Cle	Cance ? v dB v profile port port CSV t table escale escale escale escale escale
nit Profi 0.1 - 0.001 - 0.0001 - High ak VII limits	ile For Channel: Ch2  (g) <sup>3</sup> /Hz  20  bort High alarm Frequency (Hz)	Notch Acc ((g) <sup>2</sup> /Hz)	Low abort	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Ren Cle	Cance ? v dB v profile port port CSV t table escale escale escale escale escale
nit Profi 0.1 - 0.001 - 0.0001 - High ak	ile For Channel: Ch2  (g) <sup>3</sup> /Hz  20 bort I High alarm Frequency (H2) 20	Notching Low alarm	Low abort	Define all li	mits together	Notching Notchi	- profile(f)	OK Show Show Exp Edi Edi R Cle	Cance ? v dB v profile port coort CSV t table escale escale escale escale sert row nove row ear table
mit Profi 0.1 0.001 0.0001 High ab	ile For Channel: Ch2	100 Notching □ Low alarm □ Notch Acc ((g)²/Hz) 0.5	Low abort Enable	Define all li	mits together	Notching	- profile(f)	OK Show Show Show Exp Edi Ren Cle	Cance ? v dB v profile port port CSV t table escale escale sert row nove row tear table Fill all
mit Profi 0.1 - 0.001 - 0.0001 High at All limits	ile For Channel: Ch2 (g) <sup>2</sup> /Hz 20 bort High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20		Low abort Enable	Define all li	mits together	Notching	- profile(f)	OK	Cance ? v dB v profile port oport CSV t table escale escale escale escale escale escale fill all i down
mit Profi 0.1 - 0.001 - 0.0001 High at All limits	ile For Channel: Ch2 (g) <sup>2</sup> /Hz 20 bort High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20		Low abort Enable	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Edi Ren Cle Fill Fill	Cance ? v dB v profile port oprt CSV t table escale escale escale escale escale escale fill all i down range
0.1 0.01 0.001 0.0001	ile For Channel: Ch2 (g) <sup>3</sup> /Hz 20 bort High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20	Notch Acc ((g) <sup>2</sup> /H <sub>2</sub> ) 0.5 0.5	Low abort	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Ren Cle Fill	Cance ? v dB v profile port oprt CSV t table escale escale escale escale escale escale fill all i down range
mit Profi 0.1 0.001 0.0001	ile For Channel: Ch2 (g) <sup>2</sup> /Hz 20 bort High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20		Low abort	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Ren Cle Fill Fill	Cance ? v dB v profile port oprt CSV t table escale escale escale escale escale fill all I down range
mit Profi 0.1 - 0.001 - 0.0001 - 1 High ak All limits	ile For Channel: Ch2 (g) <sup>2</sup> /Hz 20 bort III High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20		Low abort	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Edi R Ren Cle	Cance ? v dB v profile port cort CSV t table escale escale escale escale fill all i down range
mit Profi 0.1 - 0.001 - 0.0001 -	ile For Channel: Ch2		Low abort	Define all li	mits together	Notching -	- profile(f)	OK Show Show Exp Edi Edi R Cle	Cance ? v dB v profile port coort CSV t table escale escale sert row nove row ear table Fill all I down range
mit Profi 0.1 0.001 0.0001	ile For Channel: Ch2	100 ■ 100 ■ Notching ■ Low alarm ■ Notch Acc ((g)²/Hz) 0.5 0.5	Low abort	Define all li	mits together	Notching	- profile(f)	OK Show Show Exp Edi Edi Ren Cle	Cance ? v dB v profile port port CSV t table escale escale sert row nove row tar table Fill all I down range
mit Profi 0.1 0.001 0.0001	ile For Channel: Ch2	100 ■ 100 ■ Notching ■ Low alarm ■ Notch Acc ((g) <sup>2</sup> /H2) 0.5 0.5	Low abort	Define all li	mits together	Notching 	- profile(f) 	OK Show Show Exp Edi Ren Cle Fill Fill	Cance ? v dB v profile port oort CSV t table escale escale sert row nove row ear table Fill all I down range
mit Profi 0.1 - 0.001 - 0.0001 - High at All limits	ile For Channel: Ch2 (g) <sup>3</sup> /Hz 20 bort I High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20	Image: Notching         Image: Low alarm           Image: Notch Acc ((g) <sup>2</sup> /Hz)         Image: Notch Acc ((g) <sup>2</sup> /Hz)           0.5         Image: Notching	Low abort	Define all li	mits together	Notching	- profile(f) 	OK Show Show Edi Edi Rem Cte	Cance ? v dB v profile port oprt CSV t table escale escale escale escale escale escale fill all i down range
mit Profi 0.1 - 0.001 - 0.0001 - 0.0001 -	ile For Channel: Ch2 (g) <sup>3</sup> /Hz 20 bort I High alarm Frequency (Hz) 20 20 20 20 20 20 20 20 20 20	Notch Acc ((g) <sup>2</sup> /Hz) 0.5 0.5	Low abort		mits together	Notching	- profile(f)	OK Show Show Exp Edi Ren Cle Fill Fill	Cance ? v dB v profile port oprt CSV t table escale escale escale escale escale fill all I down range
mit Profi 0.1 - 0.001 - 0.0001 - 0.0001 -	ile For Channel: Ch2		Low abort	Define all li	mits together	Notching Notching 1000	- profile(f)	OK	Cance ? v dB v profile port port CSV t table escale sert row nove row ear table Fill all I down range

From: https://help.go-ci.com/ - **Crystal Instruments Help** 

Permanent link: https://help.go-ci.com/vcs:limitchannels

Last update: 2024/05/29 14:44