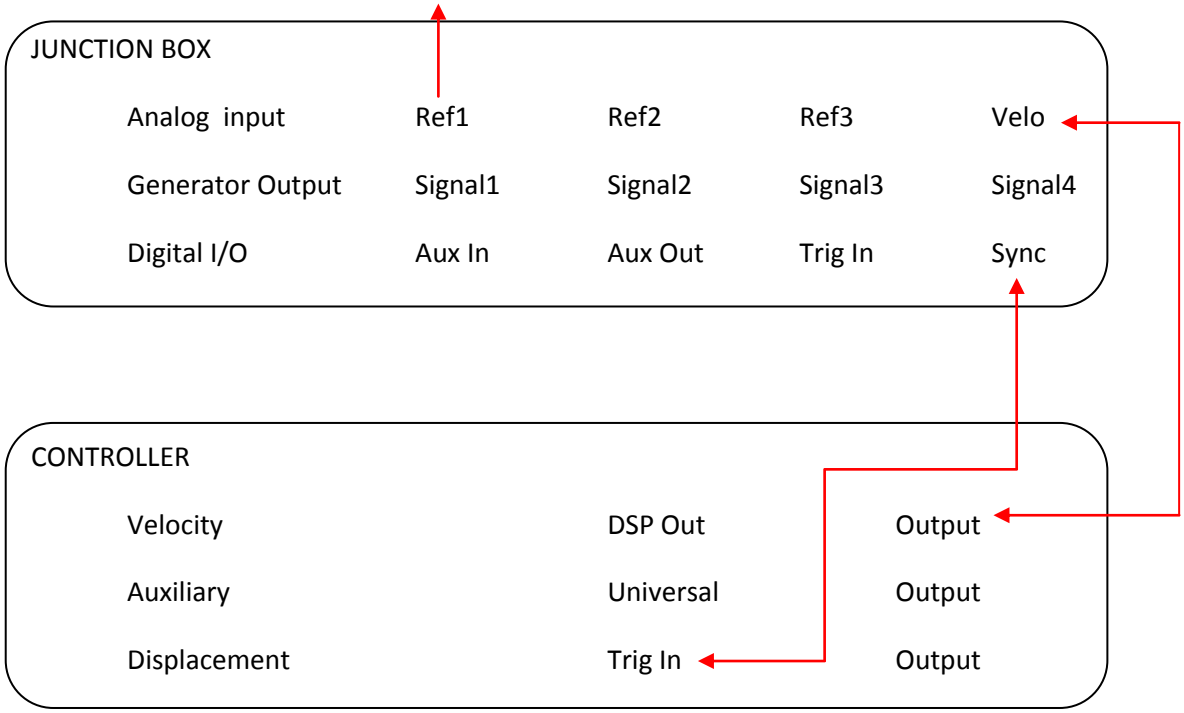
PSV400 – Typical setup for Modal Hammer

1) Cabling

Hammer na "XDCR" op "Blouboksie"

Na " scope" op "Blouboksie"



2) AD Setup

General

Measuring Mode	Averaging	
FFT	● Complex	~5

Channels

Channel	Active	Index	Direction	Range	Impedance	Quantity	Factor	Unit
Vibrometer	■		+Z	10V	1MOhm	Velocity	20	mm/s/V
Refeference 1	■		+Z	5V	1MO	*Force	*465	N/V

* In "Setup" change reference to off!

* typical value, depending on the sensitivity of the force transducer (modal hammer).

Filters

No filters

Frequency

Bandwidth	0.004	**Sample freq.**	10.42 Hz
From	0	**Sample time**	1.6s
To	0.004	**Resolution**	625
FFT Lines	6400		

Window

Channel	**Function**	**Parameter**
Vibrometer	Rectangular	
Reference 1	Exponential	4

Trigger

Source	●	**Rising**	○	**Falling**
Off		**Level**		~5
External (TTL)		**Pre-trigger**		0
● **Analog**		**Pre-trigger**		0 s
Reference 1				

SE

Channel		**Speckle Tracking**		■
Vibrometer	■			
Reference 1	■	Fast	**Standard**	Best

Vibrometer

Velocity	VD-07 20mm/s/V		**Max freq.**	350 kHz
Displacement	DD-300 (Aux) 50 Nm/V		**Max freq**.	20 MHz
Tracking filter	Off			
Lowpass filter	Off	1 %	Atenuation at:	3MHz
Highpass filter	Off			

Generator

In this case Generator is off as the input comes from the Modal hammer.

Notes:

Go to Setup/preferences first and set among others “reference” to off to activate “Force” window under “Channels/Quantity” of AD settings.