

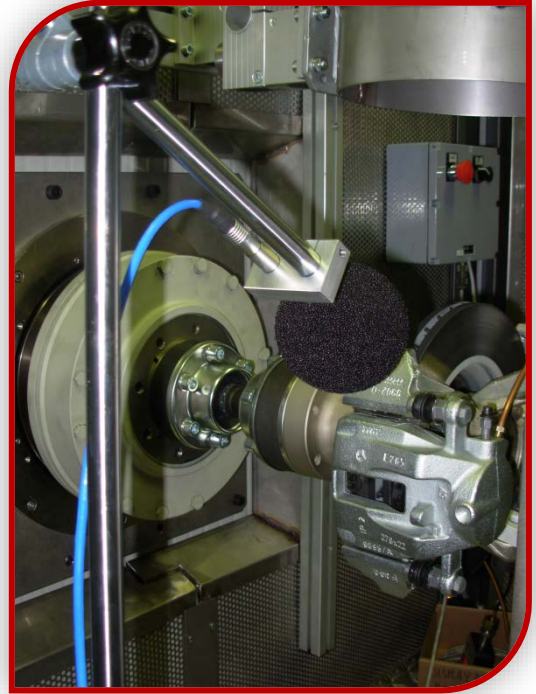


TECNAS – NOISE ACQUISITION SYSTEM

NVH ACQUISITION SYSTEM

HARDWARE

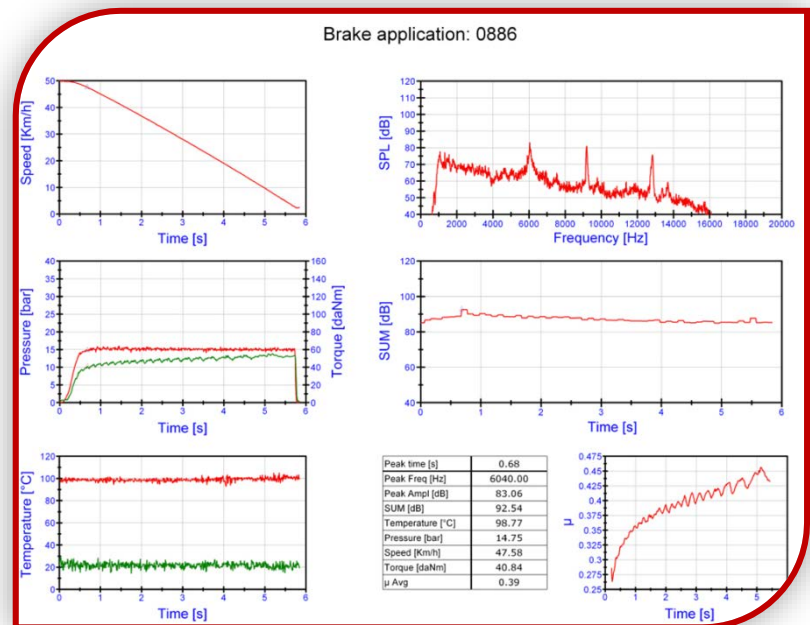
- ✓ 8 analog input vibro-acoustic channels
- ✓ 24 bit resolution
- ✓ 110 dB dynamic range
- ✓ 102.4 kS/s max
- ✓ 45 kHz alias-free bandwidth
- ✓ IEPE/ICP conditioning – software configurable



SOFTWARE

- ✓ Acquisition of pressure, torque, temperature, speed signals (100 Hz)
- ✓ Different FFT length (1024, 2048, 4096)
- ✓ FFT, noise / vibration, peak / frequency
online calculation

- ✓ Programmable threshold
- ✓ Automatic report generation
- ✓ Audio file acquisition
- ✓ Sound output for loudspeaker
- ✓ Waterfall post-elaboration



USER INTERFACE

ESECUZIONE PROVA

MONITORAGGIO REPORT ANALISI FRENATE ANALISI RISULTATI USCITA

Prova in corso Test: Prova 01 Num rumorose: 2
 Frenata da salvare Fase: Attesa Fine Frenata % rumorose: 50.00
 Frenata in corso Tempo [s]: 4.4 Frenate eseguite: 4
 Consenso frenata Frenate analizzate: 4

Prossima frenata

n° Master: 5 n° Rumore: 5
 Nome fase: Brake In Numero frenata: 5
 Descrizione: 30 bar 100 °C 80 -> 30 Km/h

MICROFONO ACCELEROMETRO MIC - ACC CANALI RIPETUTI

Mic 1
 Acc 1
 Peak Mic [Hz]: 1280
 Peak Mic [dB]: 65.9
 SUM [dB]: 68.7
 Peak Acc [Hz]: 2890

TEST REPORT

Test : SAE J2521 - 01 Procedure: Brake: Date: 06/09/2009

Noisy Freq	1000	1500	2000	3000
60	75.12	9.81	10.64	1.77
70	31.61	9.08	7.20	1.67
80	13.77	5.53	3.76	1.04
90	0.00	0.00	1.10	0.00
100	0.00	0.00	0.00	0.00
Max SPL	89.63	88.31	98.91	88.52
Avg SPL	79.02	80.90	81.26	80.20