



Syntester

Simulates a constant helicopter engine vibration level for calibration check



► Aims

- Syntester has been designed to allow end-user to verify by his own means that his Syntham and the main peripherals are in tolerance. The tests conducted allow the checking of the full acquisition path as well as the digital calculations.
- Syntester simulate the electrical signals provided by an helicopter engine. It generates « phonic well » pick up signals and accelerometers signals for a constant engine vibration level.
- SYNTESTER 2000 is used with the SYNTHAM 2000 and SYNTESTER 5000 is used with the SYNTHAM 5000.

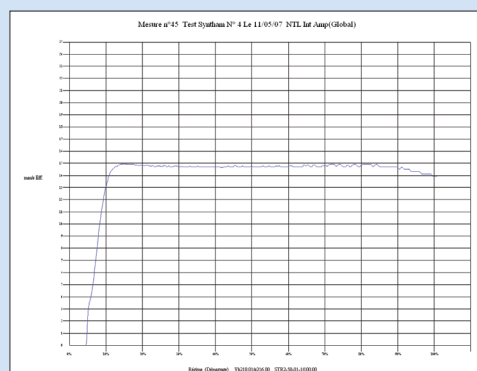
► Technical data

- Speed range 3000 to 60,000 rpm
- Tachometers signal frequency (2000)..... NG and TL = 400Hz to 8KHz
- Tachometers signal frequency (5000)..... NG = 400Hz to 8KHz, TL = 6,25Hz to 125Hz
- Vibratory speed 15 mm/s constant from 3000 to 60,000 rpm
- Test output level 480 mV AC in « calibration » mode
- Speed output 1 NG phonic output
1 NTL phonic output
- Vibration output 1 accelerometer output for Synthester 2000 and 2 for Synthester 5000
..... 1 charge amplified accelerometer output
- Run up duration 25s +/-5s
- Run down duration 25s +/-5s
- Power supply 5Vdc (2000), 28Vdc (5000)
- Dimensions 200 x 105 x 61mm
- Weight 750g
- Climatic conditions Service temperature: -20 to +55°C
..... Storage temperature: -40 to +60°C
..... Humidity: 5 to 90 %

Operating modes	Engine speed (rpm)	Accelerometer level
Calibration	30,000	15 mm/s
Down	3,000	15 mm/s
Up	60,000	15 mm/s
Run up	from 3,000 to 60,000	15 mm/s
Run down	from 60,000 to 3,000	15 mm/s

► Benefits

- Robust and compact
- Easy way to control tolerance is within the limits.
- Checking the good condition of the cables.
- Enabling training elsewhere other than using a helicopter



Syntester Measure

