

twilight

INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

Medidor de Vibraciones, TES TE-3100

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ISO 2372 Equipment vibration standard

Equipment category	Good	Acceptable	Still permissible	Dangerous
15KW the following small machinery and equipment	0 ~ 0.71 mm/s	0.72 ~ 1.80 mm/s	1.81 ~ 4.5 mm/s	> 4.5 mm/s
15KW-75KW medium-sized machinery and equipment	0 ~ 1.12 mm/s	1.13 ~ 2.80 mm/s	2.81 ~ 7.1 mm/s	> 7.1 mm/s
Large machinery and equipment	0 ~ 1.80 mm/s	1.81 ~ 4.50 mm/s	4.51 ~ 11.2 mm/s	> 11.2 mm/s
Large / large mechanical equipment	0 ~ 2.80 mm/s	2.81 ~ 7.10 mm/s	7.11 ~ 18.0 mm/s	> 18 mm/s

SPECIFICATIONS

Piezoelectric Accelerometer (PA-01)	
Sensitivity	5mV/(m/s ²)(±10%)
Acceleration range	200m/s ²
Amplitude nonlinearity	±1%
Frequency response	5Hz to 10kHz (±10%), 10kHz to 15kHz (±3dB)
Resonance frequency	27kHz
Transverse sensitivity	≤5%
Dimensions/Weight	46(H) × 19(D) mm / 46g
Measurement range (PA-01)	
ACC (Acceleration)	0.02 to 200m/s ² EQ PEAK 1Hz to 5kHz
VEL (Velocity)	0.3 to 1000mm/s RMS 3Hz to 1kHz 0.1 to 1000mm/s RMS 10Hz to 1kHz
DISP (Displacement)	0.02 to 100mm EQ PEAK 3Hz to 500Hz 0.001 to 100mm EQ PEAK 10Hz to 500Hz
Frequency range	
ACC (Acceleration)	3Hz to 1kHz, 3Hz to 5kHz, 1Hz to 100Hz, 3Hz to 20kHz
VEL (Velocity)	10Hz to 1kHz, 3Hz to 1kHz
DISP (Displacement)	1Hz to 500Hz, 3Hz to 500Hz
Measurement full-scale range	
For accelerometer PA-01 and accelerometers with sensitivity	1.0 to 9.9mV/(m/s ²)
ACC (Acceleration)	1, 10, 100, 1000m/s ²
VEL (Velocity)	10, 100, 1000mm/s
DISP (Displacement)	0.1, 1, 10, 100mm
Indication characteristics	
Acceleration	RMS, EQ PEAK
Velocity	RMS, EQ PEAK
Displacement	RMS, EQ PEAK, EQ p-p
Gain calibration (Accelerometer sensitivity selection establishes suitable gain)	
Setting range	0.10 to 0.99, 1.0 to 9.9, 10 to 99mV (m/s ²)
Ambient conditions for operation	
Accelerometer	-20 to +70°C, max. 90%RH
Main unit	-10 to +50°C, max. 90%RH
Manual memory	Maximum 99 data can be stored manually
Power requirements	4 IEC R6 (size AA) batteries, AC adapter 6V (option)
Battery life (continuous use)	8 hours (approx.)
Dimensions / Weight	158(L) × 78(W) × 40(H)mm / 286g
Supplied accessories	Instruction manual, Battery

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LLÁMANOS

+52(81) 8115-1400 / +52 (81) 8173-4300

LADA Sin Costo:
01 800 087 43 75

E-mail:
ventas@twilight.mx

www.twilight.mx



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