

# Multi-Checker

# MK-730

ISO9001



JQA-0950

Detection of air leakage from pipe,  
abnormalities of rotating machine,  
discharge from electric receiving/distribution equipment  
MK-730 has all Three functions!

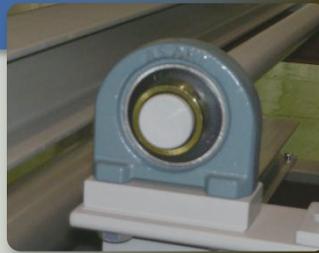
## Detection of air leakage

- Measurement of ultrasound from air leakage
- Detection of air leakage in unapproachable place including overhead pipes



## Detection of abnormal sound on bearing

- Detection of abnormal sound caused by inappropriate lubrication of bearing and damage
- Analyzing condition of bearing away from rotating machine



## Detection of corona discharge

- Detection of creeping and aerial discharge by isolation deterioration under hot line condition
- Receiving unique frequency components of discharge and eliminating noise effect



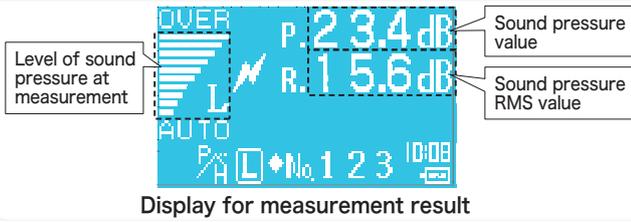
## Features

- $\pm 8^\circ$  spot confirmed at ultrasound measurement
- Identifies point of sound source with a laser pointer
- Records measurement data (component rate, waveform, FFT data)
- Easily transferable recorded data to PC via USB cable
- Checking generated audible sound through an earphone

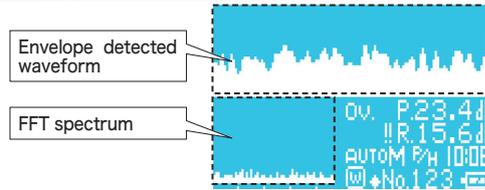


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### Detection of air leakage

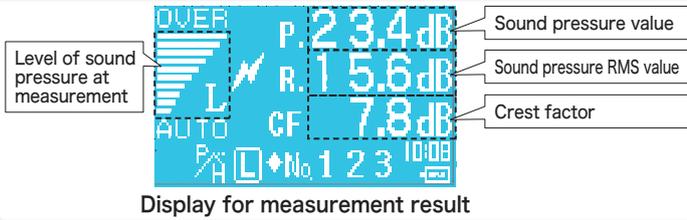


Display for measurement result



Display for detected waveform and FFT spectrum

### Detection of abnormal sound on bearing

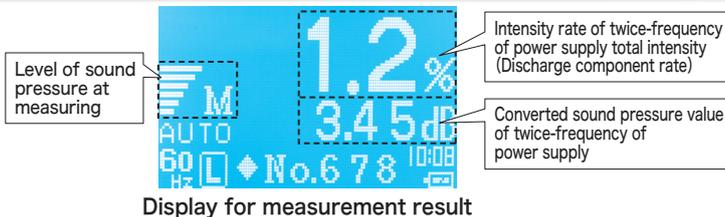


Display for measurement result

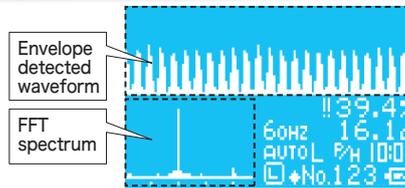
**Q** : What is "Crest factor"?

**A** : Crest factor = Sound pressure peak value / Sound pressure RMS value  
Crest factor tends to be higher by abnormal bearing.

### Detection of corona discharge



Display for measurement result



Display for detected waveform and FFT spectrum

### Specifications

Model	MK-730-E		
Detection mode	Air leakage	Abnormal sound on bearing	Corona discharge
Detecting frequency	Central frequency 40kHz		
Detecting directionality	±8°		
Display after calculation	Sound pressure peak value, Sound pressure RMS value, Peak hold value at measuring, Waveform at measuring and FFT spectrum	Sound pressure peak value, Sound pressure RMS value, Crest factor, Peak hold value at measuring	Discharge component rate, Discharge component sound pressure converted value, Peak hold value at measuring, Waveform at measuring and FFT spectrum
Alarm setting	Sound pressure RMS value	Sound pressure RMS value and Crest factor	Discharge component rate
Auxiliary function	Measuring point indication with laser pointer (Laser pointer light intensity Class 2 JIS C6802, Class 2 IEC 6825-1)		
Measurement time	0.2 second	1.6 second	0.2 second
Data memory	Calculation data	Max. 200 values	
	Waveform data	Max. 70 values	Max. 30 values
Output	Buzzer by setting level excess Signal output terminal (φ3.5mm mini jack) USB port for memory data output (USBmini B socket)		
Power supply	4 AA alkaline dry batteries (over continuous 8 hours use)		
Dimensions·Net weight	W 174 x H 272 x D 98mm Approx.370g (excluding batteries)		
Measuring ambient	0 - 40°C, 10 - 85%RH (non condensation)		
Standard configuration	Main unit, AA dry battery x 4, USB cable, Software (CD)*2, Earphone, Strap, Instruction manual, Inspection sheet		
Option	Soft case (MK-9702), Carrying case (MK-9703), Reference oscillator (MP-161)		

\*1 MK-730 software requires English OS for Windows Vista®, Windows® 7, Windows® 8, 8.1 and Excel® 2003 or later.

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\*All specifications data contained in this catalog are subject to change without notice.

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