3 in 1

# VIBRATION/TACHOMETERModel : VT-8204ISO-9001, CE, IEC1010



- \* Separate professional vibration sensor.
- Vibration meter Acceleration : 200 m/s^2, RMS, PEAK, Max. Hold., g, ft/s^2.
  Velocity : 200 mm/s, RMS, PEAK, Max. Hold, cm/s, inch/s.
  Displacement ( p-p ) : 2 mm, Max. Hold.
  \* Tachometer ( photo ) : 5 to 100,000 RPM.
  - Tachometer ( contact ) :
  - 5 to 19,000 RPM.
  - Tachometer ( surface speed ) : m/min., ft/min., inch/min.
- \* Laser photo tachometer.
- \* Data logger.
- \* Data hold, Record (max., min.).
- \* RS-232 computer interface.
- \* DC 1.5V ( UM-3, AA ) x 4 PCs.
- \* Patented.

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### MRC.10.15

Acceleration/Velocity/Displacement , Photo tachometer, Contact tachometer IR thermometer ( optional probe )

# **VIBRATION METER**

#### Model : VT-8204

## 1. FEATURES Vibration function :

	industrial vibration monitoring :
	achinery vibrates. The level of vibration
	le to machine condition. Poor balance,
5	looseness of the structure will cause
	vel increase, it is a sure sign that the
maintenance is	
	nge : 200 m/s^2.
velocity range .	
	p-p) range : 2 mm.
<ul> <li>Metric and imperiate</li> </ul>	1 5
	ent for Acceleration and Velocity.
* Peak to peak m	easurement for Displacement.
	or Acceleration and Velocity.
	ion for Acceleration (peak),
5	) and Displacement ( peak to peak ).
	e 10 Hz - 1 kHz, sensitivity relative
meet ISO 2954	
	executed by front buttons.
	ction with flexible sampling time
	save max. 1000-point data into the
memory circuit.	
	n to freeze the desired reading.
2	n to record maximum and minimum
0	value (Acc., Vel.) or Displacement (
р-р).	
<ul> <li>Auto shut off sa</li> </ul>	
	ration meter supply with separate
vibration sensor	r & magnetic base, full set.
	hoto, contact ) function :
	cting source, long measuring range up
to 1.5 meters, i	t is useful in the RPM measurement
application whe	re the machine would be a risk to the
	e access is difficult or not possible.
* The best Tacho	meter in the world. 2 in 1, one
instrument com	bine Photo Tachometer & Contact
Tachometer.	
* Wide measuring	g range from 0.5 to 100,000 RPM, 0.1
RPM resolution	for the measured value < 1000 RPM.
* Microprocessor	based circuit, crystal time base, high
precision with 0	0.05% accuracy.
* Memory with re	call function, the last value, max.,
	e will be stored into the memory
value, min. valu	
automatically.	ae will be stored into the memory
automatically.	
automatically. * Patent patented	i.
automatically. * Patent patented General function	i. n :
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Calibration point	Velocity Acceleration		
		0.05 mm ( 160 Hz )	
Memory	Maximum & Mi		
	* Memory function are only available for		
	RMS ( Acc., Vel. ) and Displacement (p-p).		
Sampling time	Approx. 1 second.		
Data logger	Data logger function with flexible		
	sampling time selection, can save max. 1000-point data into the memory circuit.		
Sampling Time	Manual	Push the data logger button	
of Data Logger		once will save the data one	
		time.	
	Auto	1, 2, 10, 30, 60, 600, 1800,	
		3600 seconds.	
Sampling time	Approx. 1 second. Auto shut off, saves battery life,		
Power off	or manual off b		
		y push button.	
2-2 Tachometer	r ( photo, contac	t) function	
Range	Photo Tachometer : 10 to 99,999 RPM		
	Contact Tachometer : 0.5 to 19,999 RPM		
	Surface Speed ( m/min. ) :		
	0.05 to 1,999.9 m/min.		
	Surface Speed ( ft/min. ) : 0.2 to 6,560 ft/min.		
Accuracy	0.2 to 6,560 ± ( 0.05 % + 1		
Accuracy Resolution	± (0.05 % + 1 0.1 RPM		
	1 RPM	< 1,000 RPM ≥1,000 RPM	
	0.01 m/min.	< 100 m/min.	
	0.1 m/min.	≧ 100 m/min.	
	0.1 ft/min.	< 1000 ft/min.	
	1 ft/min.	≧1,000 ft/min.	
Time base	Quartz crystal		
Sampling Time	Photo Tachometer - 1 sec. ( $\geq$ 60 RPM ).		
Photo	Contact Tachometer - 1 sec. ( $\geq$ 6 RPM ).		
Tachometer	50 - 1,500 mm typically. * Spec. of detecting distance are that under		
detecting		ecting tape is 10 mm square	
distance	& the measuring RPM value is 1,800 PPM.		
	The max. & min. detecting distance may		
	change under different environment,		
	different reflecting tape or the measuring		
	RPM beyond 1800 RPM.		
Laser light	* Less than 1 mW.		
source * Photo Tach.	<ul> <li>Class 2 laser diode. Red. Wave length is 645 nm approximately.</li> </ul>		
Memory		. value, Min. value.	
<u> </u>	•	· · · · ·	
2-3 General fun			
Display	45 mm x 48 mm LCD size.		
Circuit	Exclusive microcomputer circuit.		
Data output	RS 232 serial output.		
Operating temperature	0 to 50 $^\circ\!\!\mathbb{C}$ ( 32 to 122 $^\circ\!\!\mathrm{F}$ ).		
Operating	Less than 80% RH		
numidity			
Power supply	1.5 V battery x 4 PCs		
	UM-3, AA, R6		
-	Alkaline or hear	vy duty type,	
Power	Vibration	Approx. 10.5 mA	
	Tachometer	Approx. 21 mA	
Weight	Meter Probe with	397 g/0.87 LB 110 g/0.24 LB	
	magnetic base	1 10 9/0.24 LD	
Dimension	Meter :	<b>I</b>	
	46.8 x 75.5 x 188 mm		
	(1.8 x 3.0 x 7.4 inch).		
	Vibration sensor probe:		
	Round 18 mm Dia. x 40 mm.		
Accessories	Instruction manual 1 PC.		
included	Vibration sensor (VB-82) 1 PC.		
	Magnetic base 1 PC.		
	Reflecting tape marks (600 mm) 1 PC. RPM cone rubber 1 PC.		
	RPM cone rubber 1 PC. RPM funnel rubber 1 PC.		
	Carrying Case 1 PC.		
Optional	* Data Acquisit	ion software,	
accessories		SW-U801-WIN	
	* Data Logger software, SW-DL2005		
	* RS232 cable UPCB-02		
	* USB cable	USB-01 bbe IR-962	

\* Appearance and specifications listed in this brochure are subject to change without notice.