

## CMCP620 Series Portable Handheld Vibration Meter



### Features:

- Velocity and Bearing Condition (With Alarm Check)
- Used to Monitor Vibrations without Installing Equipment
- Handheld Sensor with Magnet and Stinger Tips
- Rechargeable Battery
- AC Wall and DC Auto Battery Charger
- Sensor/Cable Fault Indication
- Display Hold Function
- Choice of Metric or Imperial Measurements
- Optional Infrared Temperature Sensor

### Technical Performance

Sensor Input:	100mV/g IEPE Accelerometer (Included)
Frequency Response:	
Acceleration:	5Hz to 12kHz (300 CPM to 720k CPM)
Velocity:	10Hz to 1kHz (600 CPM to 60k CPM)
Displacements:	5Hz to 1kHz (300 CPM to 60k CPM)
Bearing Condition:	1kHz to 12kHz (60k CPM to 720k CPM)
Ranges:	
Acceleration:	0-20g's Peak
Velocity:	0-8.00 In/Sec RMS (0-203.2mm/Sec)
Displacement:	0-78 mils (0-2,000 microns)
Bearing Condition (BG):	0-20g's RMS
Bearing Condition (BV):	0-8.00 In/Sec RMS (0-203.2mm/Sec)
Optional Temperature Sensor:	-5 to 250°F (-20.56 to 121.1°C)
Laser Guide:	Red, <1mX, IEC 60825-1 Compliant
Accuracy:	5%
Display:	LCD
Hold Mode:	Displays Alarm Status Against ISO 2954 % ISO 10816-3



### Environmental

Operating Temperature Range:	+14 to +122°F (-10 to +50°C)
Sensor Temperature Range:	-4 to 194°F (-20 to +90°C)
Sealing:	IP54
Maximum Shock:	5000 g
EMC:	EN61326-1:2013

### Electrical

Power:	Lithium Rechargeable Battery 3.6 Volts, 1700mA Hours 48 Hour Continuous Operation Auto Off After 3 Minutes 3 Hours from Flat Charger and Car Charger Supplied with Meter
Battery Charge:	

### Mechanical

Case Material:	Plastic
Dimensions:	4.5" x 2.8" x 1" (114.2 x 71.1 x 25.4mm)
Weight:	5.6 Ounces (158.76 grams)
Magnetic Base:	26.5 lbs Pull Strength (12.02kg)
Stinger:	2.8" Long (71.12mm)

**Ordering Information:**

CMCP620V      Handheld Vibration Meter  
CMCP620VT     Handheld Vibration and Temperature Meter

Note:      Meters Include Meter, Charger, External Sensor, 2.5' Sensor Cable, Magnet, Stinger,  
             Carrying Case and Manual

**Accessories/Spare Parts:**

CMCP620-S      Hand Held Sensor  
CMCP620-ST     Spare Stinger  
CMCP-MB02      1" OD Magnetic Base, Curved Surface  
CMCP660-2.5    Spare 2.5' Cable  
CMCP620-MAINS   Spare AC Wall Charger  
CMCP620-DCCHG   Spare DC Auto Charger  
CMCP620-CASE   Spare Carrying Case  
CMCP620-BATT   Spare Battery



## CMCP630VP Portable Vibration Pen



### Features:

- Quick and Easy to Setup and Use
- Backlit LCD Display for Low Light Conditions
- Lightweight, Compact and Ergonomically Designed Case
- Velocity, Acceleration and Displacement Measurements
- Peak Hold Function
- Hand Pressure
- 30 Hour Battery Life (Continuous Use)
- Rechargeable Battery
- Conforms to ISO2372
- Lanyard, Travel Case, Charger, Storage Bag and ISO 10816-1 Severity Chart Included

### Product Overview

The CMCP630VP is a portable, handheld vibration meter designed for operators, maintenance personal and inspectors that complies the ISO 2372 Standard for Mechanical Vibration of Machines Operating from 10 to 200 rev/s (600 to 12,000 RPM). The CMCP630VP features a shockproof high strength aluminum case, backlit LCD display for low light and direct sunlight conditions and a simple two button operation. The Vibration Pen is capable of measuring Acceleration, Velocity and Displacement and can display the highest measurement using the Peak Hold function. The rechargeable lithium-ion battery allows for up to 30 hours of continuous measurements and recharges using a standard 5VDC USB charger which is provided with the kit. An ISO 10816-1 Vibration Severity Chart is included with the kit for easily referencing the measurement with industry standards.

### Specifications

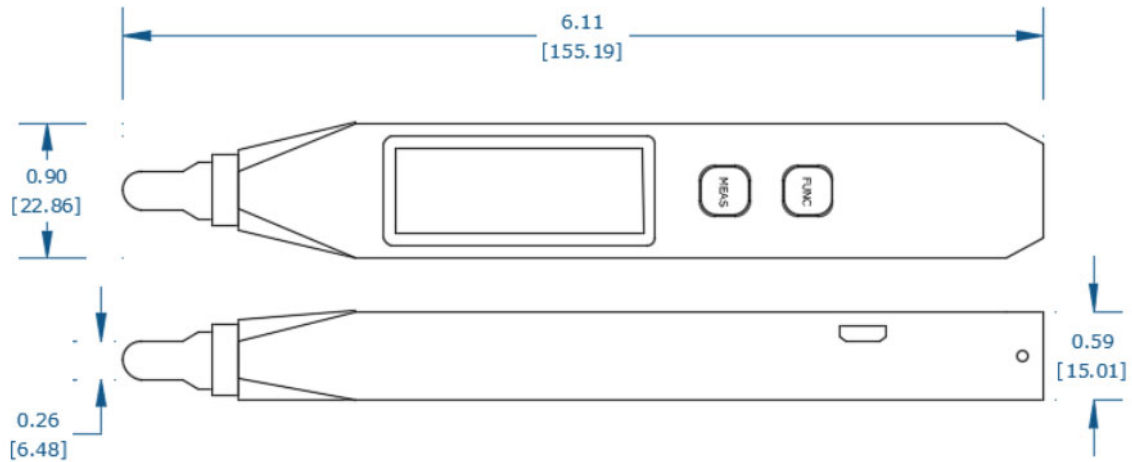
Case Material:	5052 Aluminum – Anodized
Tip Material:	316 Stainless Steel
Battery Life:	30 Hours on Full Charge
Charger:	5V USB Wall Charger (Included)
Velocity Range:	0-8.0 In/S (0-203mm/s) RMS
Frequency Range:	10Hz to 1kHz (ISO Standard)
Acceleration Range:	0-20g's Peak
Frequency Range 1:	10Hz to 1KHz
Frequency Range 2:	10Hz to 15kHz
Displacement Range:	0-80 mils (2,032um)
Frequency Range:	10 to 500Hz
Dimensions:	6.11"x0.90"x0.47" (156x23x12mm)

### ISO 10816-1 Vibration Severity Chart

VIBRATION SEVERITY PER ISO 10816-1						
Machine	Class I		Class II	Class III	Class IV	
	in/s	mm/s	Small Machines	Medium Machines	Large Rigid Foundation	Large Soft Foundation
Vibration Velocity Vrms	0.01	0.28				
	0.02	0.45				
	0.03	0.71				
	0.04	1.12				
	0.07	1.80				
	0.11	2.80				
	0.18	4.50				
	0.28	7.10				
	0.44	11.20				
	0.70	18.00				
	1.10	28.00				
	1.77	45.90				



## Dimensions



## Items Included

Vibration Pen  
Hard Travel Case  
USB Wall Charger  
USB Charging Cable  
Storage Bag  
Lanyard  
Manual  
ISO 10816-1 Severity Chart

## Ordering Information

CMCP630VP-E                      Portable Vibration Pen Kit, English Units  
CMCP630VP-M                      Portable Vibration Pen Kit, Metric Units

## Images



LCD Display Layout



CMCP630VP



CMCP630VP Rear