STI Vibration Monitoring Inc.

Vibration Monitoring and Machine Protection Systems
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CMCP630VP
Portable Vibration Pen

Predictive Maintenance Essentials

3 YEARS WARRANTY

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
- Anti-Interference Technology to Eliminate Hand Jitter
- 30 Hour Battery Life (Continuous Use)
- Rechargeable Battery
- Conforms to ISO 20816
- Charger, Travel Case, Storage Bag, Lanyard and ISO 20816-3 Severity Chart Included

Typical Applications
Electrical motors of any type, rolls and mills, blowers and fans, conveyors, industrial gas turbines with power up to 3 MW, rotary compressors, turbofans, and certain steam turbines, and many more.

Product Overview
The CMCP630VP is a portable, handheld vibration meter designed for operators, maintenance personnel and Inspectors. The Vibration Pen complies with the ISO 20816 Standard for Mechanical Vibration of industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 30 000 r/min with the Sensor (Instrument) located directly on and in contact with the measurement point.
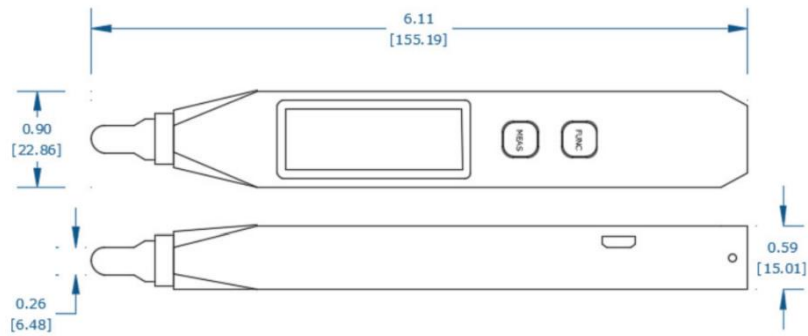
The CMCP630VP features a shockproof high strength aluminum case, backlit LCD display for low light and direct sunlight conditions and a simple two button operation. The Vibration Pen is capable of measuring Acceleration, Velocity and Displacement and can display the highest measurement using the Peak Hold function. The rechargeable lithium-ion battery allows for up to 30 hours of continuous measurements and recharges using a standard 5 VDC USB charger which is provided with the kit. An ISO 20816-3 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 (0-203 mm/s) RMS
Frequency Range:	10 Hz to 1.0 kHz (ISO Standard)
Acceleration Range:	0-20 g Peak
Frequency Range 1:	10 Hz to 1.0 kHz
Frequency Range 2:	10 Hz to 15 kHz
Displacement Range:	0-80 mils (2,032 μm)
Frequency Range:	10 to 500 Hz
Dimensions:	6.11"x0.90"x0.47" (156 x 23 x 12 mm)

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Dimensions

Dimensions: 6.11 [155.19], 0.90 [22.86], 0.26 [6.48], 0.59 [15.01]

Items Included
Vibration Pen
Hard Travel Case
USB Wall Charger
USB Charging Cable
Storage Bag
Lanyard
Manual
ISO 20816-3 Severity Chart:

ISO 20816-3		Group 1		Group 2	
		Large machines power > 300 kW		Medium machines 15 kW > power ≤ 300 kW	
in/sec peak	mm/s rms	Motor height >315 mm		Motor 160 > height ≤ 315 mm	
- 0.61	11.0	Damage occurs			
- 0.39	7.1	Restricted operation			
- 0.25	4.5				
- 0.19	3.5				
- 0.16	2.8	Unrestricted operation			
- 0.13	2.3				
- 0.08	1.4	Newly commissioned machinery			
- 0.04	0.7				
- 0.00	0.0				
Foundation		Flexible	Rigid	Flexible	Rigid

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

Note: Due to STI's continuous process improvement, specifications are subject to change without notice.