Vibration Monitoring System

- **Monitoring the operation of vibrators and impactors**
- **Constant check-up of vibration systems**
- **Control unit mounted on M36 DIN rail**

Applications
The vibration monitoring system series VibroMonitor is used for the constant monitoring of impactors, vibrators and vibrating equipment.

The VibroMonitor system reliably monitors the operation of vibrators and impactors even in locations with difficult access.

Construction and working principle
Up to four monitoring sensors can be connected to the control unit, connected with cables up to 250 meters away.

The control unit supplies the sensors with the operating voltage and evaluates the sensors feedback signal.

The system displays two operating status information per sensor: “vibration” or “No Vibrations” is detected.

CVP offers the accessories required for monitoring, installation, control and monitoring of vibrators and impactors

Permissible operating conditions
Operation voltage:
24 V. DC (+20% / -10%), <5% residual ripple

Ambient temperature:
-20° C. to 40° C.

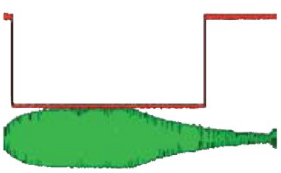
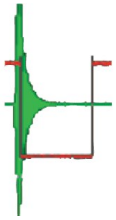
VibroMonitor

VibroMonitor	NVM C1 Control Unit	NVM C4 Control Unit	NVM S1 Sensor
			
Sensor inputs	1x un-polarised	4x un-polarised	Cylindrical sensor made of stainless steel with 4-pin socket for round connections M12 x 1 with cap nut and interlock
Relay output	1x potential-free change over, max. 30V DC, max. 2A	-	
Digital outputs	-	4x sensor status, NPN max. 8 mA	Shock acceleration Max. 981 m/s2
Status-LEDs	1x operating voltage control, 1x sensor status	1x operating voltage control, 4x sensor status	
Faults	1x fault output Cable break or short circuit)	4x visual indicators	Cable length between sensor and control unit: max. 250 meters
Mounting	M36 DIN-Rail		
Dimensions	70 x 35 x 90mm.	70 x 70 x 90mm.	Ø12 x 40mm. thread (plug), M12 x 1

Sensor ——————— **Control Unit** — — — — — — **Control (PLC)**

Accessories

1. Sensor clamp support in plastic or stainless steel protected with rubber.
2. Elbow connector M12 x 1 with or without connection cable.

Vibrator Monitor		Impact Monitor	
	The VibroMonitor output (red) shows the acceleration (green) exceeding the switching threshold* of 9,81 m/s3. *Can be adjusted from the manufacture.		The VibroMonitor output (red) holds its status for at least 400 ms and therefore reliably detects even short impacts (green). This signal length can be processed by standard PLCs.

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