NetterVibration

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Vibration Monitoring System
Series *VibroMonitor*

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

NVM C1W

NVM C4

NVM S10

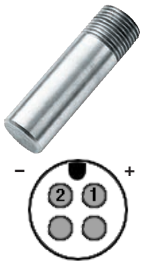
Serving industry with vibration

NetterVibration

Vibration Monitoring System
Series *VibroMonitor*

VibroMonitor	NVM C1W Control unit	NVM C4W Control unit	NVM C4 Control unit
			
Sensor inputs	1 ■ unpolarised	4 ■ unpolarised	4 ■ unpolarised
Relay outputs	1 × potential free change-over	4 × potential free change-over	–
Digital outputs	1 ■ sensor status, NPN, max. 1 A		4 ■ sensor status, NPN, max. 8 mA
Setting	–	2 ■ SET inputs	–
Status-LEDs	1 ■ operating voltage control		1 operating voltage control, 4 ■ sensor status
	1 ■ sensor status	8 ■ sensor status	
Fault	1 ■ Fault output (cable break or short circuit)		4 ■ visual indicators
Dimensions H × W × D	70 × 35 × 90 mm	70 × 70 × 90 mm	70 × 70 × 90 mm
Mounting	M36-DIN-standard rail (EN50022)		

NVM S10 Sensor

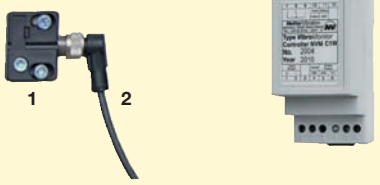


Cylindrical sensor made of stainless steel with 4-pin socket for round connectors M12 x 1 with cap nut and interlock

Shock acceleration
max. 100 g (peak)
Switching threshold adjustable
0-7,0 g (RMS), 0-10 g (peak)
Standard setting
3,5 g (RMS), 5 g peak

Cable length between sensor and control unit: max. 250 m

Ø 12 × 40, thread (plug) M12 ■ 1



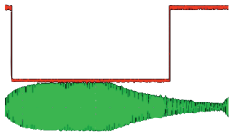
Sensor ——— Control unit – – – – – – – – – – Control (PLC)

Accessories

1 Sensor clamp support in plastic or rubberised stainless steel pipe clamp.

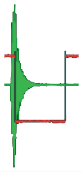
2 Elbow connector M12 × 1 or sensor connector cable with cast elbow connector M12 × 1

Vibrator monitoring



The ***Vibro****Monitor output (red)* shows the acceleration (green) exceeding the set switching threshold*.
*Can be adjusted in the factory.

Impactor monitoring



The ***Vibro****Monitor output (red)* holds its status for at least 450 ms. and therefore reliably records even short impacts (green). This signal length is treatable by standard commercial PLCs.

Applications
The vibration monitoring system series ***Vibro****Monitor* is used for the constant monitoring of impactors, vibrators and vibrating systems.

The ***Vibro****Monitor* system reliably monitors the operation of vibrators and impactors, even in locations with difficult access.

Design and function
The vibration monitoring system consists of sensor, connector cable and control unit. The control unit ensures the safe transmission of the sensor signal up to a maximum cable length of 250 m. Depending on the version up to 4 sensors can be supplied by a control unit.

The system displays two operating status informations per sensor: "Vibration" or "No vibration".

Permissible operating conditions
Operating voltage:
24 V DC (+20 % / -10 %), < 5 % residual ripple
Ambient temperature:
C1W and C4W: 0 °C to 40 °C
C4 and S10: -20 °C to 40 °C

Netter*Vibration* offers the accessories required for the mounting, installation, control and monitoring of vibrators and impactors.

Netter provides solutions.
Consult our experienced application technicians.

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