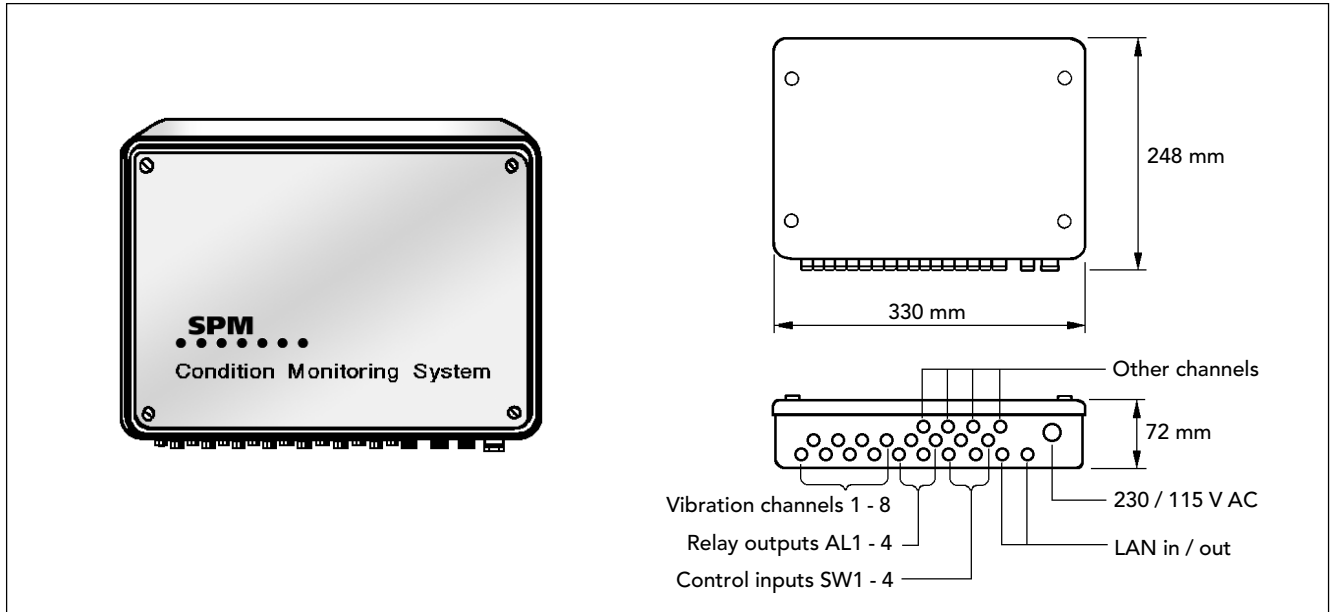


CMS System: Measuring Unit VMS



Vibration monitoring

Measuring unit VMS is a part of the CMS System for continuous vibration monitoring. A CMS System can contain up to 250 measuring units. The VMS unit accommodates up to 8 vibration monitoring channels. The units are operated under software control (SPM Condmaster®). Each unit has 4 relay outputs for e.g. activating machine stop and 4 inputs for controlling the relay outputs.

The VMS unit measures vibration severity according to ISO 2372 (velocity in mm/s RMS, 10 to 1000 Hz). Each vibration channel is activated for a programmed measuring time (2–255 s). Readings are taken in a programmed sequence. The VMS unit stores up to 1000 readings per channel. These are transferred to the PC for evaluation and display by Condmaster®.

The measuring unit is designed for wall mounting and has a stainless steel housing with neoprene gaskets. It is connected to a main power of 230 V or 115 V AC (nominal voltage $\pm 10\%$, even load, no excessive spikes).

Via data cables, the measuring units are connected in series, forming one or two local area networks (LAN) connected to the system unit. The shielded data cable must be installed in a suitable electrical environment.

A VMS measuring unit can be equipped with extra circuit boards for measuring speed and analogue signals. They are specified on other data sheets, see under Ordering numbers.

Technical data

Measuring range:	0 to 100 mm/s RMS
Inputs / outputs:	8 vibration monitoring channels, LAN in / out, 4 control inputs and 4 relay outputs
Storage capacity:	1000 readings / channel
Dimensions:	330 x 248 x 72 mm
Weight:	4.5 kg
Housing:	Stainless steel, neoprene gaskets, IP 65
Cable inlets:	Nickel plated brass
Temperature:	0° to 55° C
Mains supply :	230 or 115 V AC $\pm 10\%$, 10 VA
Relay:	Max. 50 V DC, 10 W alt. Max. 35 V AC, 10 VA
Data cable:	Shielded, 4 conductors twisted in pairs, area 0.22 mm ² each. Max. cable length between units 1000 m

Ordering numbers

VMS-22	VMS measuring unit, 8 vibration channels
VMS-23	VMS unit with RPM board 13490, see TD-41
VMS-24	VMS unit with AMS board, see TD-84
90220-L	Data cable, temperature -20° to +70°C, L = length in meter

