

System components

Condition monitoring system

Motor Condition Monitoring based on SIPLUS CMS2000

Overview

With the motor condition monitoring box (order code **M49**) Siemens offers a CMS2000 condition monitoring system that has been designed for use on a rotating machine. The box is mounted directly on the motor and comprises a vibration and a temperature sensor for each bearing as well as three winding temperature sensors and the speed sensing. These are all electrically connected and tested. The rugged die-cast aluminum box has an IP65 degree of protection, and protects the modules inside the box even under the harshest of conditions. The box is thermally insulated, so that the heat dissipated by the motor does not have a negative impact on the module electronics. If a service contract is concluded, the evaluation of the data can be performed by Siemens (not included in option **M49**). For further information on the motor condition monitoring box visit www.siemens.com/mcm.

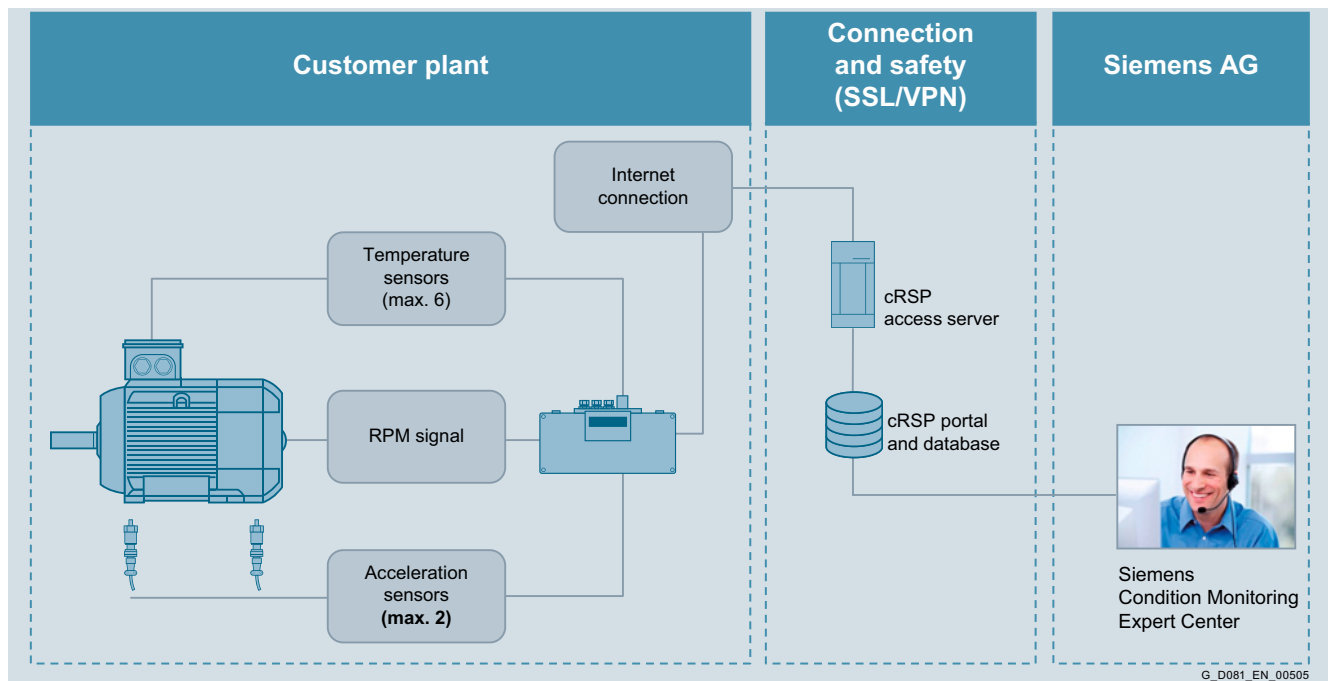


Motor condition monitoring box

Technical specifications

Housing	Diecast aluminum housing, IP65 version
Color	RAL 7001 for orders using the Z option (new motor) with the same color as the motor
Dimensions	
• Width	360 mm
• Height	160 mm
• Depth	120 mm
Weight, approx.	4.2 kg
Inputs and outputs	2 × IEPE: Vibration sensing 2 × AL: Analog inputs 1 × DI: INHIBIT input 1 × DI: Trigger input 1 × DI: Speed input 6 × Temperature input 3 × DO: System-limit value signals 1 × Ethernet interface
Power supply	100 ... 230 V 1 AC, 50/60 Hz

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G_D081_EN_00505

Motor condition monitoring advanced service overview

Siemens offers Advanced Motor Condition Monitoring services to optimally support and monitor motors. Continuously monitoring the process-critical variables of the motor with a combination of motor condition monitoring box and service contract allows changes to the operating state to be identified at an early phase. Siemens experts set individual warning and alarm limits for all of the values that are monitored. When limit values and the relevant status changes are exceeded, in the next step, Siemens experts carry out in-depth analysis as to the reason for this – and make recommendations regarding the necessary countermeasures.

Further, Siemens experts immediately contact you. The values measured with the motor condition monitoring box are monitored and evaluated by qualified Siemens personnel via a remote data link. A regular status report shows the state of the monitored components and includes, where relevant, recommendations for action to be taken.

You can obtain additional information and ordering options at www.siemens.com/mcm