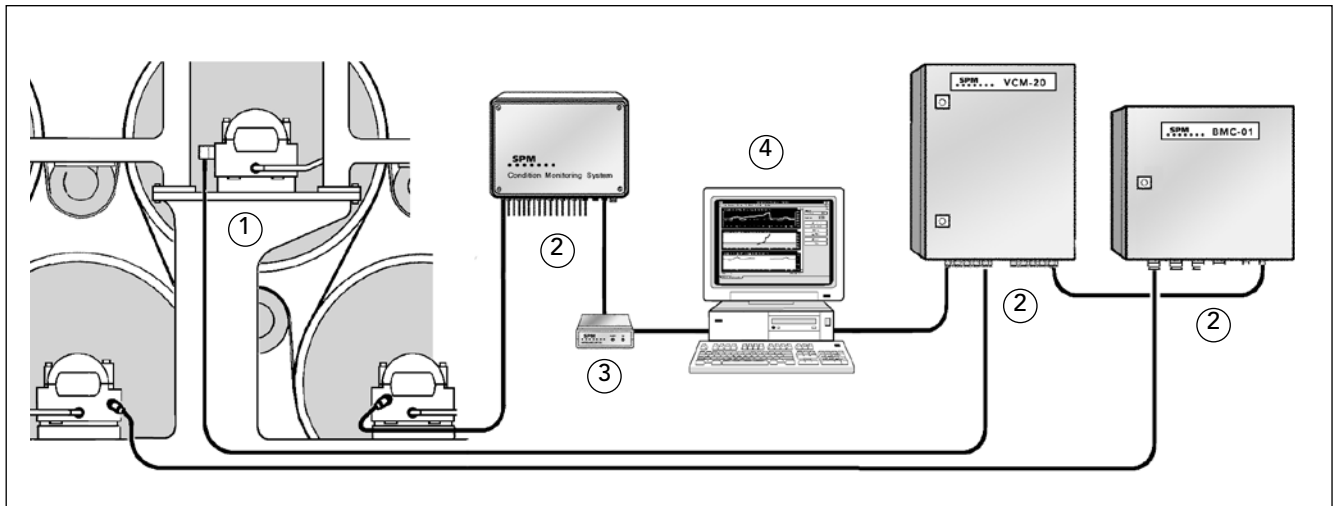


CMS: System Components



The CMS System

The CMS System is a permanently installed, continuous machine condition monitoring system. It can be handled by the SPM software Condmaster®, a PC program which controls the system and collects, stores, and evaluates the measuring results.

A CMS system comprises: 1) Transducer line, 2) Measuring units, 3) System unit, and 4) Computer with Condmaster®. The parts are specified on a number of data sheets (TD) referred to below.

1. Transducer line

A. Bearing monitoring line:

A shock pulse transducer (several alternatives) and a transducer matching unit (TMU) are connected by coaxial cable to the measuring unit:

Standard transducer 40000 (40100) + TMU-12	TD-004
Transducer 42000 (42100) with built-in TMU	TD-005
Isolated transducer 11223-L + TMU 12	TD-006
Ex-proof transducer 42011 (42111), transformer	TD-116
Coaxial cables and connectors	TD-018
Transducer matching unit TMU-12	TD-055

B. Vibration monitoring and analysis:

Vibration transducer TRV-10/11 (VMS)	TD-063
Vibration transducer TRV-20/21 (VCM)	TD-124
Vibration transducer SLD144 B/F (VCM)	TD-203
Vibration transducer SLD244 B/F, Ex (VCM)	TD-215
Coaxial cables and connectors	TD-018
Twisted pair cables for SLD transducers	TD-259
Connector 15168 for SLD transducers	TD-217

C. Temperature monitoring:

Temperature transducer TMM-10	TD-107
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2. Measuring units

There are 4 types of measuring units, BMS (bearing monitoring), VMS (vibration severity monitoring), VCM (vibration analysis with the EVAM® method) and BMC (bearing monitoring with SPM Spectrum™). The BMS and VMS units can be equipped with additional boards for monitoring of speed (RPM board) or analogue signals (AMS board).

A. Bearing monitoring:

Measuring unit BMS with 16 bearing channels	TD-40
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B. Vibration monitoring:

Measuring unit VMS for 8 vib. channels	TD-42
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C. RPM monitoring:

RPM board 13490 with 4 channels	TD-41
Analogue RPM board 13854 for VMS/BMS	TD-87

D. Monitoring of analogue signals:

Analogue board 13863 (AMS measuring unit) with 16 analogue channels	TD-84
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E. Evaluated vibration analysis:

Measuring unit VCM for 8 alt. 24 vib. channels	TD-123
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F. Bearing monitoring with SPM Spectrum™

Cabinet BMC (connected to the host unit VCM) with 7 to 56 bearing channels	TD-174
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3. System unit

The system unit SYS-10 is the interface between the measuring units and the PC.

System unit SYS-10	TD-45
Computer cables and connectors	TD-44

4. Computer with Condmaster®Nova

The system software Condmaster®Nova requires a PC for Windows environment.

SPM Condmaster®Nova	TD-230 – TD245
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