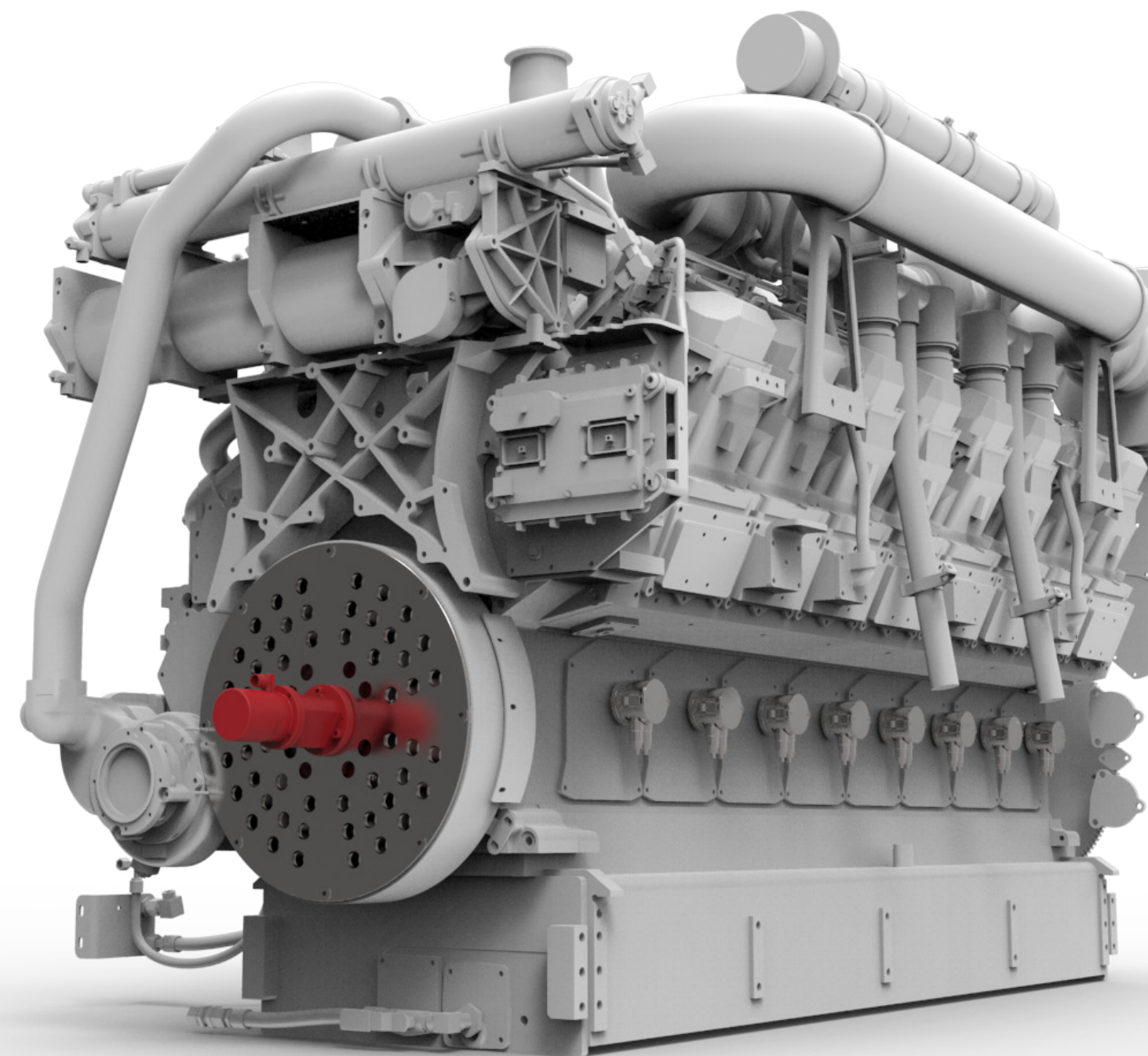


BeCOMS® ADVANTAGES

- » Easy installation
- » Online and continuous monitoring
- » Optimization of the availability and reliability of the engine
- » Early and reliable detection of bearing anomalies
- » No unnecessary bearing inspections
- » Minimizing engine maintenance and service costs
- » Maintenance free

TECHNICAL DATA

Power supply	24V DC +30% / -25%
Power consumption	continuous 0.8A, peak at startup max. 2.0A
Alarm level	adjustable in 5 steps for Thermosignal, in RPM for overspeed alarm
Outputs	3 isolated relay contacts: <ul style="list-style-type: none"> • System Ready • Shutdown Main alarm • Pre-alarm
Data interface	<ul style="list-style-type: none"> • RS485 to PC • Modbus (RS422 or RS485) • CAN bus (optional)
Ambient temperature	0 - 70°C for Evaluator 0 - 85°C for SRE



BeCOMS®

Bearing Condition On-line Monitoring System versions

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motcom® BeCOMS® Flyer Versions 160704-en

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VERSIONS

Features	Professional	Basic
Hardware		
Power supply 24V DC +30/-25%	x	x
Sensitivity adjustable in 5 Steps	x	x
2 alarm relays, function programmable	x	x
1 ready relay	x	x
RS485 Interface	x	-
RS232 Interface	x	x*
LC-Display 240x128 dots	x	x
TFT Display color 480x272 dots	o	o
System status LEDs (System Ready, Pre-alarm, Shutdown)	x	x
PC for data logging which supports up to 6 systems	x	-
Modbus interface	o	-
Canbus interface	o	o
Software Capabilities of the Evaluator		
Setup of BeCOMS system via the user interface of the Evaluator or via RS485/RS232 (text based setup using a terminal program)	x	x
Displays Thermosignal in % alarm level	x	x
Displays Thermosignal AC effective in % alarm level	x	x
Displays Thermosignal DC effective in % alarm level	x	x
Displays Thermosignal in mV	x	x
Triggers Pre-alarm Shutdown using AC and DC Thermosignal	x	x
Continuous check of SRE sensor by Evaluator	x	x
Error monitoring on Evaluator display	x	x
AC and DC alarm levels separately adjustable	x	x
Displays engine speed in RPM	x	x
Triggers overspeed alarm	x	x
Different AC alarm levels for 2 adjustable RPM levels	x	x
Shows measured values in a graphic overview display	x	x
Recording of data for damage localisation	x	x
Recording data of combustion cycle performance	x	-
Data output via RS485	x	-
Data output via RS232		
Data output via RS485 for combustion cycle	x	-
Data output via RS485 for damage localisation	x	-
CB frictionspot diagram since Evaluator start	x	x
CB Thermovoltage diagram in % of DC alarm level	x	x

VERSIONS

Features	Professional	Basic
Software PC (Data Logger, Data_Indicator)		
Required Software shipped with system	x	-
Data Logger version for 1, 2, 4 or 6 BeCOMS systems included	x	-
Displays relay status	x	-
Displays Thermosignal in % and mV	x	-
Displays Thermosignal AC eff. in % alarm level	x	-
Displays Thermosignal AC eff. in % alarm level	x	-
Displays engine speed in RPM	x	-
Displays adjusted DC and AC alarm level	x	-
Status window with plain text information	x	-
Displays setup parameters	x	-
Displays Thermosignal (% and mV), Thermosignal effective and engine speed in one y-t graph	x	-
Minimized polar diagram in the main window	x	-
Enlarged polar diagram in an own window, incl. integrated engine geometry for damage localisation	x	-
Cylinder Speed Difference Diagram for Evaluation of each single cylinder	x	-
Cylinder Thermosignal Difference Diagram for Evaluation of cylinder signal	x	-
Storing standard data in daily or hourly log file	x	-
Storing enhanced data for damage localisation in daily or hourly log file	x	-
Display standard data of log files by Data_Indicator software	x	-
Display enhanced data of log files for damage localisation by Data_ Indicator software	x	-
Possibility to analyse the log files with optional motcom Loganalyser software	x	-

x = included - = not included o = optional

* only setup function for Evaluator, no transmission of measured values