



HMCflex

The HMCflex unit offers a multitude of functions for the control and monitoring of conventional but also electronically-controlled diesel engines. You can individually configure the settings for very diverse applications and different engine variants.

APPLICATIONS

Wood chippers

Crushers

Conveyor technology

Special-purpose vehicles
and machines

Transflective, backlit B/W display with automatic contrast adjustment
HMCflex ensures perfect legibility even under poor lighting conditions.

UV-resistant, rugged PA6 housing. Secure installation with retainer or screw-fastening, 3 x M6
Fast installation and retrofit. Dependable functioning even in harsh environments.

Communication via CAN bus with the network
Integration of conventional engines in existing CAN bus networks and applications.

Variable settings enable a versatile use
Chipper automatic parametrisable
Configurable feed and return stroke functionally
Manuell control of feed an return stroke

Pin assignments of the outputs are freely parametrisable.

Up to 5 high-current outputs.

Flexible utilisation of the HMCflex functionalities, tailored to the customer application.
Output parametrisation with the display menu or the convenient ehbTools software.
No programming required.

Pre-heat, by-glow and after-glow function, time- or temperature-controlled
Reliable starting process, even at very low temperatures. Less environmental impact and smoke generation.

Total operating hours counter and resettable daily operating hours counter
Reliable information about engine running times and required servicing. Transparent summary of operating times.

Password-protected menu settings and automatic logging of the last 20 faults
Access to relevant functions restricted to authorised personnel. Reliable reproduction of faults occurred.

HMCflex TECHNICAL DATA

ehb5221*

Electrical data

Voltage range	6 – 32V (typ. 12 – 24V)
Power consumption	50 mA typical (bei UB 8 – 24V)
Fuse	All outputs are short circuit-proof
Operating temperature	-20°C bis +70°C
Storage temperature	-30°C bis +80°C

Inputs	PIN 01: Oil pressure as NO / NC, programmable, switching or analogue sensor
	PIN 02: Generator monitoring, terminal D+
	PIN 03: Temperature as NO / NC, programmable, switching or analogue sensor
	PIN 04: Various, NO / NC
	PIN 07: Auto start, NO / NC
	PIN 09: External stop, NO / NC
	PIN 13: Speed monitoring, terminal W, Sensor or magnetic pick-up

Outputs	All outputs are short circuit-proof
	PIN 02: Generator excitation, terminal D+, 0.5A
	PIN 06: Freely parametrisable, 6.5A (max. 1s) / 6.0A
	PIN 08: Freely parametrisable, 40A (max. 1s) / 20A
	PIN 10: Freely parametrisable, 70A (max. 1s) / 35A
	PIN 11: Freely parametrisable, 40A (max. 1s) / 20A
	PIN 12: Freely parametrisable, 70A (max. 1s) / 35A
	PIN 15: Freely parametrisable, 3.5A (max. 1s) / 3.0A

CAN bus interface	PIN 17/19: CAN2.OB, 250kBit, SAE J1939 / EEC1, ET1, EFL/P1, VEP1, AMB, DM1 fault messages / auto start, speed adjustment, optionally adaptable
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Operating hours counter	Integrated
Daily operating hours counter	Integrated

Visualisation

Display Typ	Dot matrix LCD display, transfective Dark-blue representation on grey background
Resolution	16x2 characters, 5x8 dots per character
Brightness	>1000 cd/m ²
contrast ratio (CR)	8,24
Background lighting	LED, white

Mechanical data

Housing dimensions (L x W)	72 x 72 mm
Installation dimensions (W x H x D)	66 x 66 x 130 mm
Installation cut-out (W – H)	66 x 66 mm
Housing material	PA 6 30 GB, black, UV-stabilised
Weight	340 g
Installation	Retainer or screw-fastening 3 x M6
Degree of protection	Front side IP65 / IP67 Back side IP67 Housing IP67 Clamps IP67
Connection	Deutsch plug typ HDP24-24-19PE

Test standard

Humidity	DIN EN 60068-2-3
Vibration	DIN EN 60068-2-6
Impact	DIN EN 60068-2-27
CE marking	according to Directive 2014/30/EU

Accessories

Connection cable, 19-pole, 3m	ehb2268
Deutsch plug set	ehb1469
CAN dongle with ehbTools PC software	ehb5365
Starter kit, CAN dongle, ehbTools, connecting cable, power supply unit	ehb5378

