

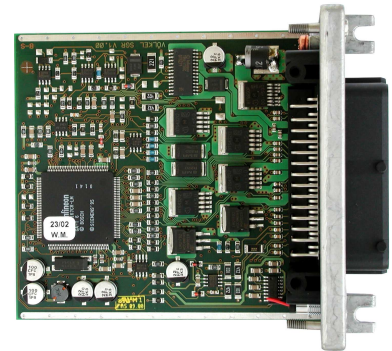


Load Limit Sensing Control System GLR

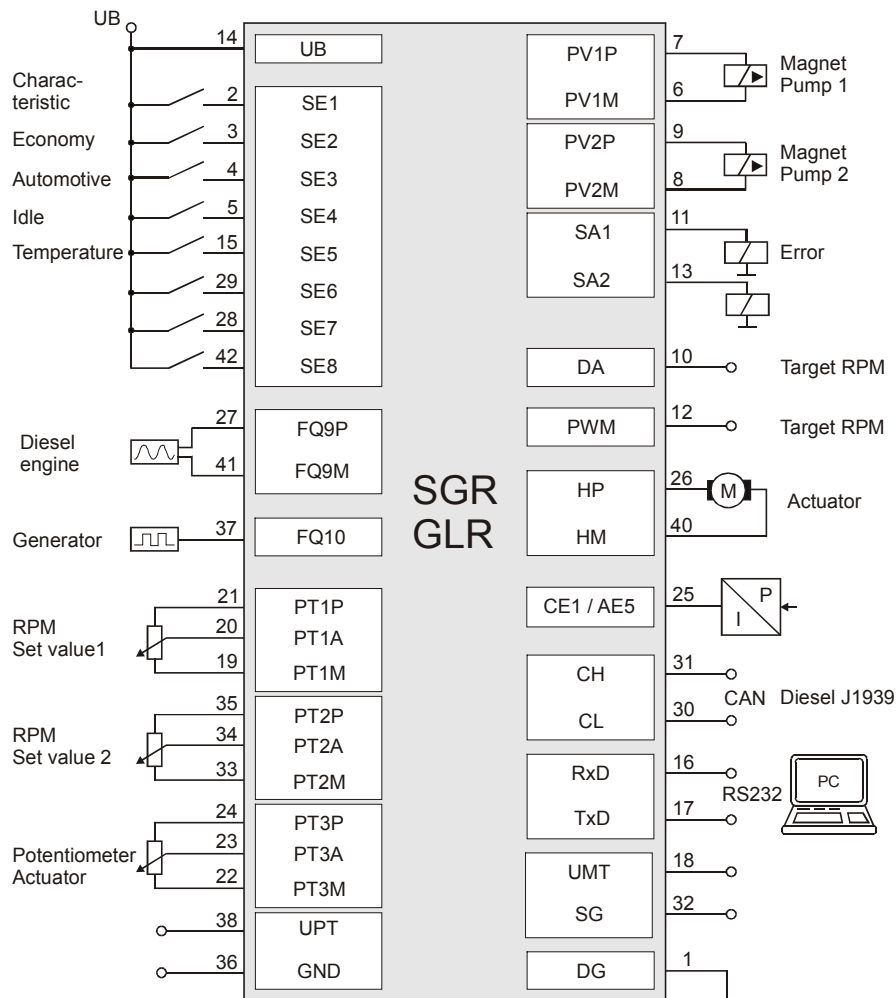
A machine's efficiency is directly related to the exploitation of the diesel engine. The load limit sensing control system regulates the decrease of performance. A motor overload is thus hindered and the motor output can be used optimally in all areas.

Its versatile connection and functional options make the load limit sensing control system applicable for a wide range of machines.

The GLR controller is constructed based on the hardware platform SGR. The hand terminal MT or the PC program ConDoc - Control&Document®m serve to input the parameters.



GLR Connection diagram





GLR Performance features

- The rotary frequency set value is set using two potentiometers, an overriding control system (PLC) or directly as a fixed value.
- The actual rotary frequency is measured from clamp W, via a pickup sensor or using the SAE-J1939 CAN interface.
- The diesel motor is driven via a voltage output, a PWM output, an actuator or using the SAE-J1939 CAN interface.
- Errors are indicated via a switch output.
- An automatic learning function supports the recording of the characteristic diesel curve.

GLR Functions

- The entire control pattern can be individually adapted to match the machine.
- The automatic idle running lowers the diesel rotary frequency in a settable period.
- The economy function and the excess temperature function both reduce the power consumption if required.
- The operation mode "automotive" - automatic pump adjustment using the setting values – makes the operation of the machine considerably easier.

SGR Hardware

The control system is protected by robust aluminium housing.



SGR Technical data

Microcontroller:	C167CR, 20MHz
Program memory:	1 Mbyte flash EPROM
Data memory:	128kByte RAM
Parameter memory:	64kBit EEPROM
Interfaces:	RS232, CAN
Inputs:	3 Analogue inputs 0 ... 10V 5 Digital inputs 2 Frequency inputs
Outputs:	2 Proportional solenoid outputs up to 2A 1 Switch output up to 3A 1 Analogue output 0-10V 1 PWM exit 0/5V 1 Actuator exit, maximum 2A
Supply:	8 ... 32V, approx. 60mA at 24V
Plug connections:	AMP 1-0967280-1, 42-pins
Housing:	Black aluminium, Protection systems: IP65, IP69K
Temperature range:	-25 ... 70°C
Dimensions:	152mm x 150mm x 56mm

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