

Product information of the NOx evaluation unit EG-UniNOx

Evaluation unit EG-UniNOx



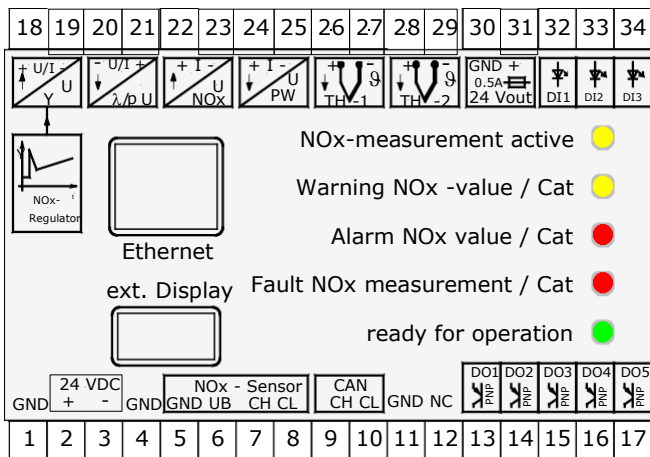
NOx sensor



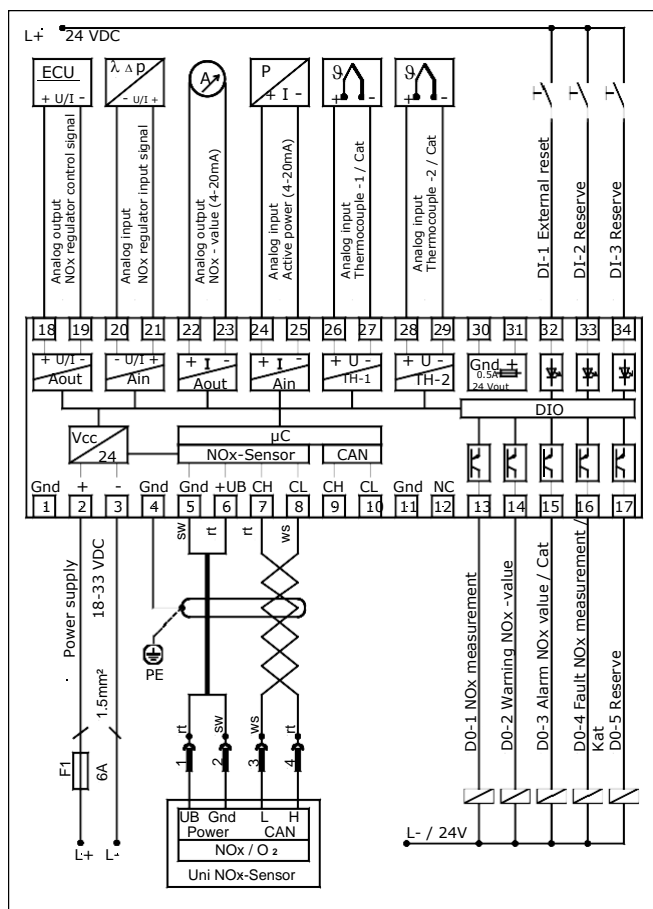
Solution concept for continuous monitoring according to 44.BImSchV

- ☞ Autonomous measurement electronics for detection and monitoring of NOx emission
- ☞ NOx daily mean value display in [mg/m³].
- ☞ Optical as well as digital alarm message in case of NOx daily mean value > alarm threshold
- ☞ Optical and digital warning message for NOx - daily mean value > warning threshold
- ☞ Temperature and function monitoring of exhaust gas aftertreatment according to VDMA 6299
- ☞ Recording of data required for continuous NOx measurement (daily logs) for up to 6 years
- ☞ Recording of all parameters and system changes as well as all alarm and warning messages for up to 2 years.
- ☞ Automatic sending of the monthly logs required for documentation by e-mail or retrievable at any time via web interface.
- ☞ Error monitoring of the NOx sensor as well as documentation of replacement and calibration
- ☞ Measured value display, configuration and parameterization via web interface with limited access authorization for motor service, plant operator and control authority with specification of user name and password

Front view



Terminal connection diagram



Technical data

- Supply voltage 18-33VDC
- Plug-in terminal housing for mounting on top hat rail TS35. Dimensions (WxHxD): 90x107x75 mm³
- Connection of 2 thermocouples (type:K / 0-800°C) for function monitoring of the catalyst
- Connection of NOx sensor via CAN Bus J1939
- Analog real-time display of NOx [mg/m³] in 4-20mA for downstream motor control
- Digital IO interface (24V) for connection to higher-level motor control system
- Analog inputs (4-20mA) for lambda signal and generator active power
- Configurable internal NOx regulator for integration into existing motor control systems based on the functional principle of analog measurement signal, offset connection to the lambda signal or boost pressure signal.
- Integrated misfire/ride disturbance detection, ensures stable motor operation with active NOx control, irrespective of gas quality
- Ring memory for real-time measurements: Sampling rate 10sec; recording duration: 3 months Recording of analog and digital measured variables for the purpose of data and error analysis.
- Ring memory for alarm and status messages: Recording duration: 6 years
- Configuration and data logger call via web interface with limited accessibility
- Optional front connection of the external 3.5" touch display: "AP-EG-UniNOx" for visualization of measured values and status messages
- Front LED display for signaling operating status, alarm and fault messages
- Interfaces: 1x CAN Bus SAE J1939
1x Ethernet TCP/IP 10/100Mbit
1x display panel via USB2.0A
- Ambient temperature 0-60°C