CANobserver®

Features:

- Bus systems:
  - CAN, CANopen, DeviceNet, SAE J1939
- Baud rates (5 kbit/s ... 1 Mbit/s)
- Monitoring physical
  - Quality level (0 ... 100 %)
  - Disturbance-free voltage range
  - Rising and falling edges
- Monitoring logical
  - Active/passive errors, overload frames, ack. errors
- Continuous monitoring
  - Bus status, bus traffic load, CAN supply voltage
- User-friendly browser-based configuration/ analysis, Control point connection via SNMP
- E-mail notification (device, status and error notification)
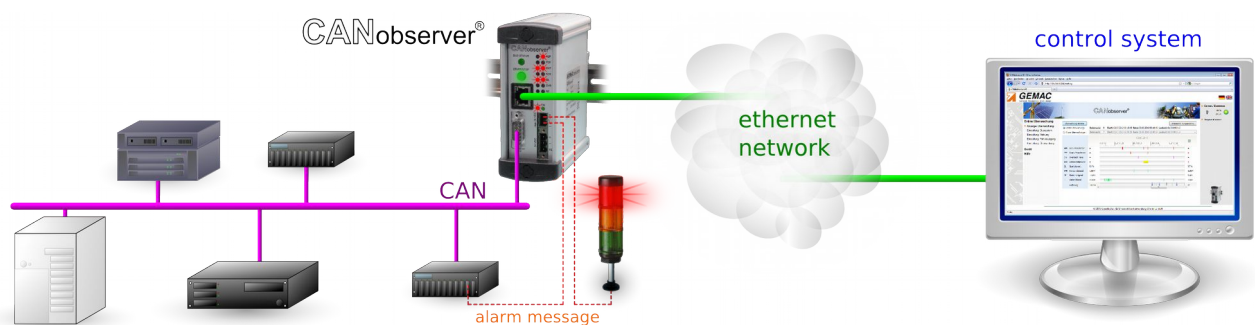- Maintenance without PC, continuous recording up to 10 years

Abbildung ähnlich

The CANobserver® is a diagnose tool that's used for physical and logical long-term monitoring of CAN-Bus plants. It has been planned as a stationary supplement of the CAN-Bus Tester 2. The CANobserver® is implemented into the network permanently, monitors the data transfer continuously and records it automatically for a period of up to ten years. This is the only means of safeguarding a future-oriented maintenance. VDI/VDE has recognized this necessity as well. The new guideline 2184, published in 2007, explains how plant operators can guarantee a reliable functioning and maintenance of their Field Bus systems.

Fields of application:

- Real-time monitoring of CAN-Bus plants
- Plant monitoring according to VDI/VDE 2184

Technical Specifications*:

General parameters and overview of functions	
Use (CAN type)	CAN (ISO11898-2), CANopen, DeviceNet (EN 50325-2), SAE J1939
Baud rates	All baud rates according to the particular CAN type
Station overview	Automatically according to the particular CAN type
Bit sampling	64-fold
Quality level	Signal quality level (0 ... 100 %)
Disturbance-free voltage range	0 ... 4 V, resolution 50 mV
Edges	Edge steepness (in 1/64th of the bit width)
Bus status	Bus traffic detection (display: dominant, recessive, not defined, bus traffic)
Bus traffic load	Permanent display of the bus traffic load (0 ... 100 %)
Error logging	Active error frames Passive error frames Overload frames Acknowledge errors Failure to reach a critical quality level (adjustable) Failure to reach a critical disturbance-free voltage range (adjustable) Exceeding of a critical rising edge (adjustable) Exceeding of a critical falling edge (adjustable)
Error indicator	All logged errors (permanent/current) displayed via LEDs
Error output	Freely programmable
Export	Recorded measurements exportable in XML format for processing with CAN-Bus Tester 2 - Application software

Electrical parameters	
Power supply	Via the supplied wide-range power supply pack (9 ... 36 V DC)
Measuring of the differential voltage	typ. - 0.75 V ... 3.00 V
Measuring of the CAN supply voltage	0 ... 36 V
Error output	Potential-free, max. 30 V DC

Mechanical parameters	
CAN connection	9-pin SUB-D connector
Network connection	10/100 MBit Ethernet IEE 802.3u, RJ-45 (8P8C) LAN connector
Housing	Aluminum plate housing for top hat rail mounting, degree of protection: IP20
Temperature range	Operation: 5 ... 40 °C, storage: - 20 ... 60 °C
Dimensions	50 mm x 125 mm x 124 mm
Weight	approx. 550 g

* For a complete description of all technical specifications, please refer to the User Manual (www.gemac-fieldbus.com).

Ordering Information:

Product	Description	Article number
CANobserver®	CANobserver®, Bus systems: CAN, CANopen, DeviceNet, SAE J1939	PR-22550-00