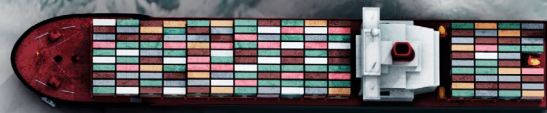


# Calming save.

***Intensive Fieldbus Diagnostic.  
Detect faults before  
they occur at all.***



## IFD

INTENSIVE  
FIELDBUS  
DIAGNOSTIC

***Reliable in every challenge.***

**GEMAC *IFD*.**

Sporadic failures, consternation among service personnel and engineers shrugging their shoulders - with GEMAC IFD, the Intensive Fieldbus Diagnostic, these are things of the past. With the IFD technology of GEMAC, you can look deeper into the processes of your CAN-based machine than ever before.

 **GEMAC**

Intensive Fieldbus Diagnostic helps engineers and technicians in the concept phase develop a more stable CAN bus. Through qualified acceptance testing and regular measurements throughout the life cycle, your machines and systems will meet the highest requirements for availability, safety and long-term stability. By gaining a wealth of information, you will:

- make data-based decisions
- build more stable products
- save costs
- speed up troubleshooting and repair
- minimize downtime



 	 
Determination of the physical signal quality (OSI level 1), Quality value, edge steepness, disturbance-free voltage range, Oscilloscope	Determination of the physical signal quality (OSI layer 1), Quality value, edge steepness, disturbance-free voltage range, Oscilloscope
2-channel oscilloscope (CAN_H, CAN_L)	1-channel oscilloscope (differential signal)
Bus voltage measurement (supply voltage, shield voltage)	Supply voltage measurement
CAN levels differential and absolute, level ratio	
Common mode (ground shift)	Common mode measurement via external (digital storage oscilloscope)
Onlinetrigger for real-time monitoring	Online trigger for real-time monitoring
Protocol monitor with symbolic decoding, trace	Protocol monitor with symbolic decoding, decoder for CANopen, SAE J1939 incl. ISOBUS and NMEA2000
Bus status with bus load, active and passive error frames counter	Bus status with bus load, active and passive error frames
Automatic quick test within 10 sec.	
Wiring test	Wiring test
Project management with predefined node lists and threshold values	Project management using measurement files
Automatic evaluation of all measurements with individual threshold values using smileys and traffic light colors	Automatic evaluation of individual measurements with individual threshold value
Battery operated, touch operation, archive function, screenshots	Operation with Windows PC / laptop, creation of a PDF measurement report
	Trigger output for connection of a storage oscilloscope

**CAN • CANopen • DeviceNet • SAE J1939 • ISOBUS • NMEA2000**