SCHALLER AUTOMATION

Safety for you and your engine

Oil mist detector VISATRON®VN2020



www.schaller-automation.com

Our oil mist detectors protect more than 55,000 engines

The latest generation is out now. VISATRON®VN2020

The latest version of our oil mist detectors, the VISATRON®VN2020, is the successor to our veteran VISATRON®VN87^{plus}. The new generation comes with the latest SMD technology for even faster response times, as well as low maintenance and an even more user-friendly design.

Experience & passion

For more than 60 years, our focus every day has been on developing and continuously improving safety systems to protect large diesel, gas and dual-fuel engines.
Since entering the business of oil mist detection systems, the focus on quality has made us the global market leader by following our motto, now and in the future “Safety for you and your engine”



VN87^{plus}

Quality & benefits

Since the beginning our OMDs are air supported systems. The heart of the system is the central measuring unit.
Developed for diesel, gas and dual-fuel engines, the VN2020 can check up multiple measuring points simultaneously via an engine-specific mounting kit for complete monitoring of the crankcase. An alarm is triggered if the oil mist concentration increases at one of the measuring points. The VN2020 protects your engine preventively, permanently and reliably, contributing to the safety of operator and machine.

Compatibility & features

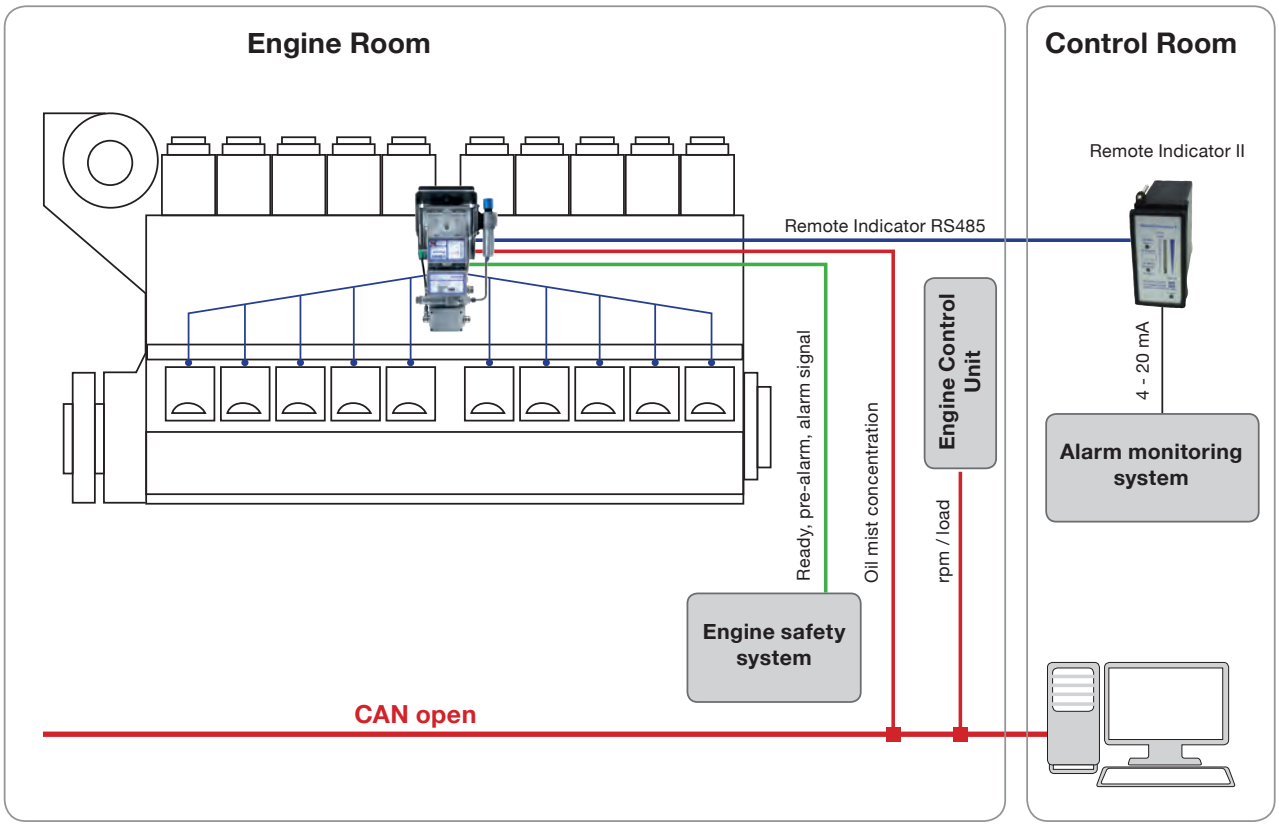
The new VN2020 has been designed for easy retrofitting of its predecessors, the VN87, VN87^{plus} and VN93. An upgrade gives you the benefits of the latest features of our OMD technology with minimal effort.

- ATEX and IECEx certifications
- Low costs
- New pressure regulator unit
- User-friendly, easy-to-read LED display
- CANopen and Modbus RTU connectivity
- Reset button at central point on the measuring unit

Are you interested in a retrofit or upgrade?

Contact us at any time at: marketing@schaller.de

Better, faster, easier: VISATRON®VN2020



Flexibility and outstanding safety





New, environmentally friendly fuels pose new challenges when it comes to engines and their components. Early on, we are one step ahead by obtaining explosion protection certification for our products. The new VISATRON®VN2020 is the world's first explosion-protected oil mist detector that complies with both ATEX and IECEx guidelines.

Our product is prepared for all upcoming engine generations operating with oil or gas as fuel. Set sail for the future with VISATRON®.

Ready for the future. Ergonomic. Connected.

Our new measuring unit is an easy-to-service product. And it is even more user-friendly with precise details for the ‘Error Code’ and the ‘Oil Mist Alarm’.



NEW DISPLAY

The new generation comes with a further improved function overview. You get all key information quickly and easily. ERROR CODE and OIL MIST ALARM, as key information, are always in sight. A Remote Indicator can also be added.

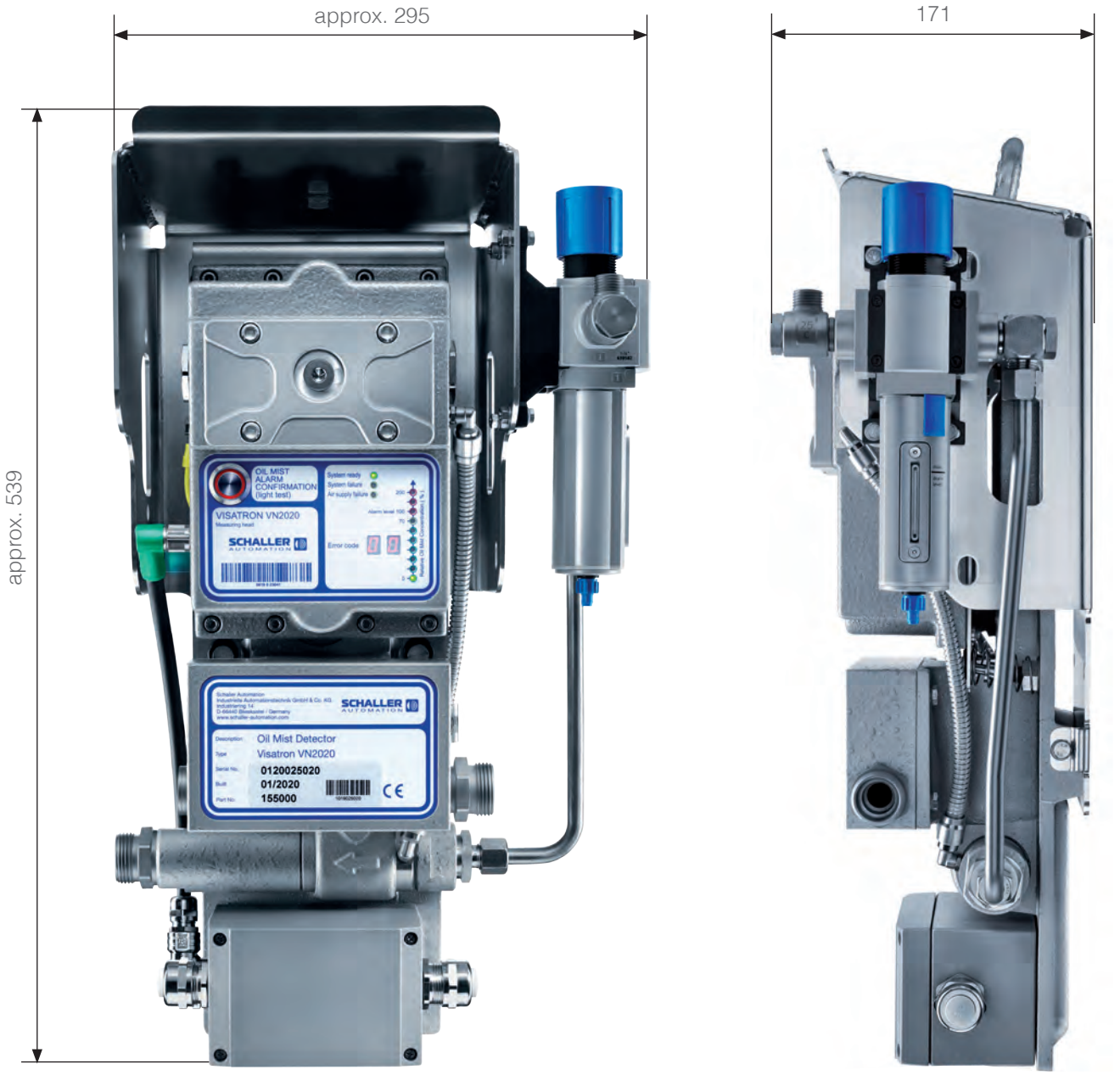




NEW INTERFACE

Our VISATRON®VN2020 can communicate with the latest control systems via Modbus/CANbus. The internal memory has been increased so that all system-related data is stored in the OMD. The data can be used by our service team for device analysis purposes and reduce the time of service.

VISATRON®VN2020 dimensions

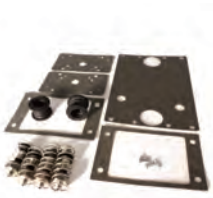


VISATRON®VN2020 specifications

Dimensions	623 x 298 x 171 mm
Weight	12,5 kg
Installation	4 x M8
Housing	Aluminium
Operating temperature	5°C - 70°C
Storage temperature	-25°C – 80°C
Relative humidity	Max. 95%
IP	IP 54
Vibrations	+/- 1.6 mm displacement or 4G (5-100 Hz)
Power supply	18-31,2 V DC
Nominal voltage	24 V DC
Current consumption	Max. 2A
Display parameters	Oil mist concentration System status Error indicator Reset button
Relay outputs	2 × „High Oil Mist Alarm“ 1 × „Ready“ (ready for operation) 1 × „Oil Mist Pre-Alarm“ (max. 60 Volt AC / DC, 1A)
Communication interface with monitoring device	3-wire RS485, electrically isolated/ CANopen, electrically isolated
Memory	Events: 8000
Compressed air supply	Min. 2 bar Max. 12 bar
Compressed air consumption	1,2 Nm^3/h
Compressed air connection, pressure regulator	M16 x 1,5
Air quality	ISO 8573-1:2010 (6-4-4)

Assembly parts

We have the perfect solution for every engine configuration. A large range of accessories are available for assembly.



Service Kit



Connecting line



Connecting unit



Cleaning kit



Pipe siphon



Remote Indicator

Future-proof technology
Take advantage of our expertise.

Visatron®VN301plus

Safety for you and your investment with our VISATRON VN301plus oil mist detector for 2- and 4-stroke engines.
The VN301plus oil mist detector comes with a number of impressive features.



BEAROMOS®2020

The BEAROMOS®2020 slide bearing monitoring system is a new way of detecting the first metal-to-metal contact when bearing damage occurs. Protect your crankshaft simply and cost-efficient! One sensor per engine is enough to monitor the main bearings.



ACCOMOS®

This innovative 3-axis acceleration monitoring system has been specially developed to monitor the vibration limit values in DIN ISO 10816-6 for combustion engines over 100 kW. Easily installed in minutes.



SCHALLER AUTOMATION

Safety for you and your engine: Worldwide!



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ISO 9001/2015 certified

Image source: AIDA Cruises – German Branch of Costa Crociere S.p.A.