SCHALLER AUTOMATION PTE LTD
Diesel Engine Safety Monitoring Systems
(UEN 200410681K)
www.schaller.sg

114 Lavender Street, #09-93 CT Hub 2
Singapore 338729
Tel: +65 6643 5151 Fax: +65 6643 5150
Email: info@schallersingapore.com

made
in
Germany

Maintenance Procedures - VN301plus / VN301plus EX

❌	CAUTION! Maintenance work has to be done when engine is stopped.

Quarterly or after 2000 operating hours, whatever comes first	
1	Check pressure setting in the central unit: under 2,25 bar → adjust pressure between 2,25 bar and 2,75 bar → okay over 2,75 bar → adjust pressure	See chapter 8.4 page 29
Half-yearly or after 4000 operating hours, whatever comes first		
2	Perform quarterly maintenance procedure 1	
3	Clean glass lenses in the Sensor units	See chapter 9.1 page 35
4	Exchange air filter in pressure regulator unit	
Yearly or after 8000 operating hours, whatever comes first		
5	Perform half-yearly maintenance procedure 2 - 4	
6	Perform functional test of all sensors with test smoke	See chapter 9.3. page 37
Bi-yearly or after 16000 operating hours, whatever comes first		
7	An inspection of the entire OMD installation onboard has to be executed by service staff being trained and authorized for this job by Schaller Automation	

Maintenance - Cleaning the section of Measurement

Required cleaning is indicated by blinking (long on, short off) green light at VISATRON® VN301plus / VN301plusEX Sensor- and Central Unit. There still is some reserve (20%) before the contamination limit is reached. With this there is enough time to clean the sensor before the sensor fails (indicated by blinking lamp, equal time on /off).

For cleaning disassemble the Sensor Unit from sensor base plate loosening the 4 vertical base plate screws. Clean the glass measurement windows (**Figure 26**) using a cotton stick soaked with cleaning fluid.

Allowed cleaning fluids are:

• Cleaning kit 151482

Ex

DANGER

• Do not disassemble the Sensor Unit from base plate during engine operation. Explosive atmosphere may emit from the engine causing an explosion hazard.
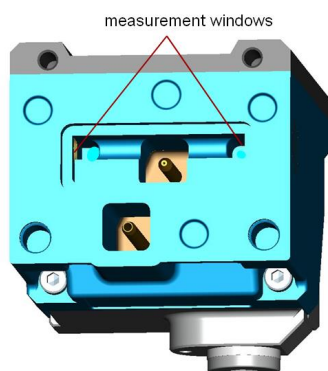

Figure 26: VISATRON® VN301plus /VN301plusEX Sensor Unit bottom view showing the windows from the section of measurement.