



# Mounting instructions

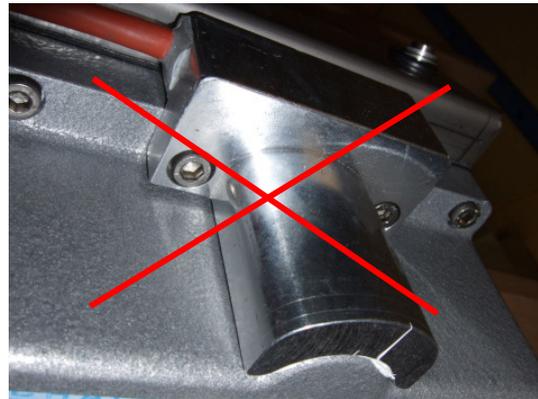
## Measuring Head Replacement VN87-EMC to VN87plus series

This guide should be followed when replacing your VN87-EMC measuring head with that of a VN87plus measuring head as there are important differences between the units.

For instructions on how to remove and install a measuring head please refer to the manual supplied with your oil mist detector.



**Figure 1:** Measuring Head of VN87plus series.



**Figure 2:** Measuring Head heater of the VN87-EMC series.

The measuring head of the VN87plus series (Figure 1) contains an internal heater.

The measuring head heater (Figure 2) was available for the VN87-EMC series as an optional upgrade or was included if you purchased the upgraded version of the oil mist detector.

**Important:** If you currently have the external top mounted measuring head heating element (Figure 2) you **MUST NOT** install it on the VN87plus measuring head after exchanging the units, doing so may cause the VN87plus measuring head to overheat resulting in erratic operation and/or damage to the unit.

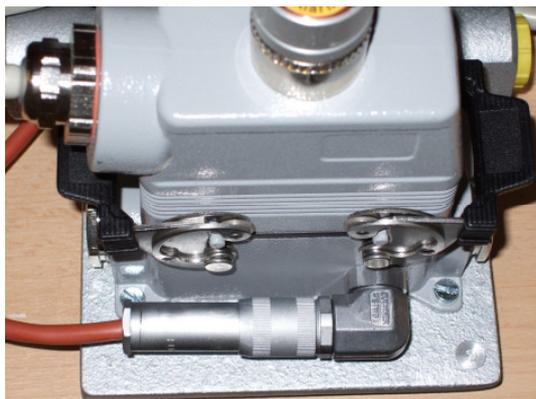
If the base plate heating element (Figure 3) is currently installed it is recommended to leave it in place. It will not effect the operation of the VN87plus measuring head.

If you wish to remove it the remaining hole will need to be plugged.

Part-No. 10083 (Plug G1/4") and  
Part-No. 10054 (Seal for Plug G1/4")  
may be purchased for this purpose.



**Figure 3:** Base plate heating element.



**Figure 4:** Main connector with heater attached.

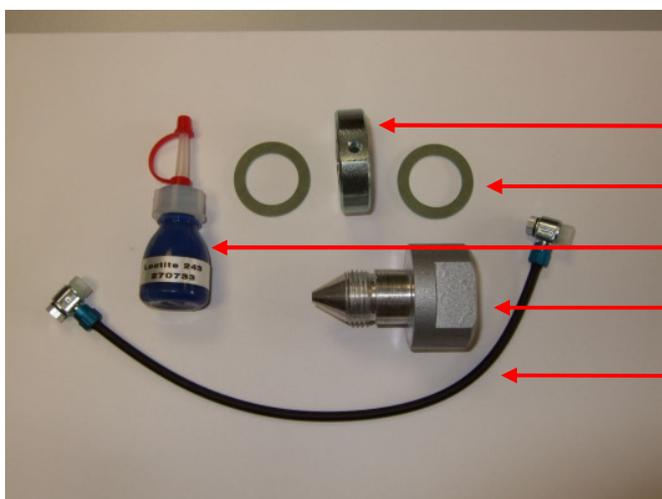


**Figure 5:** Main connector with heater removed and plug capped off.

After exchanging the measuring heads the main connector will need to be finalized with one of two possibilities.

1. In case of measuring head heating element (Figure 2), as it **MUST NOT** be re-installed the main connector heater plug will need to be capped off (Figure 5).
2. In case of the base plate heating element (Figure 3), it is recommended to leave it installed (Figure 4) or if removed then the main connector heater plug will need to be capped off (Figure 5).

The measuring head of the VN87plus always uses scavenging air to keep the optics clean. Included with the VN87plus measuring head is the air scavenging installation kit.



- Connector ring
- Sealing rings
- Loctite paste
- Venturi injector
- Scavenging air hose

**Figure 6:** Scavenging air kit #11171.

If your oil mist detector already has the air scavenging kit installed then you may skip the basic installation steps provided within the kit however you still need to connect the scavenging air hose between the measuring head and the connector ring as the last step, secure it with a 7mm spanner/wrench and apply the provided loctite to the threads.

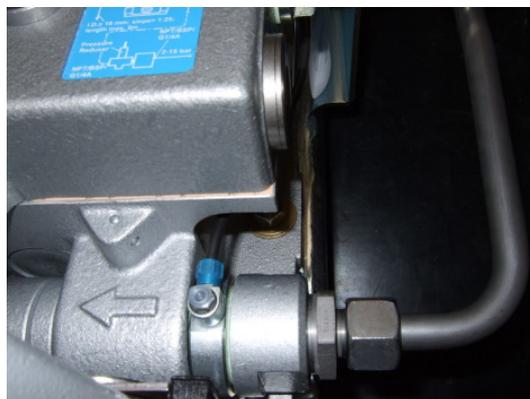
**Important:** Even if your oil mist detector already has the air scavenging kit installed please **DO NOT** re-use the old scavenging air hose, instead, use the new one provided.



If your oil mist detector does not already have the air scavenging kit installed please refer to the instructions included with the kit for the proper installation procedure. You will need 22mm, 27mm and 32mm open-end spanners/wrenches to complete the installation.



**Figure 7:** Air jet pump without scavenging air kit.



**Figure 8:** Air jet pump with scavenging kit installed (connector ring, seals new venture injector and hose).

If a Remote Indicator II (Part-No. 11506) is installed as the remote monitoring device the wires at pins 6 and 7 must be shifted to pins 1 and 2 according to the pin assignments of the Remote Indicator II manual.

After power-on of the VISATRON® device (approx. 40sec.) and the Remote Indicator II, the connection between both units should be checked. The green Ready-LED must be lit.



**Figure 9:** Remote Indicator II



**Figure 10:** Connector at the rear side

If an older model gauge is used as the remote monitoring device it must be disconnected and exchanged by a VN87plus compatible device, e.g. Remote Indicator II.