

These instructions refer to data sheet 1614.

1. Functioning

The clogging indicator with the designation OP is a optical pressure difference indicator and with the designation OE is a combined visual and electrical pressure difference indicator.

This type of pressure difference indicator can be mounted on all pressure filters with operating pressure ≤ 63 bar, if the corresponding measuring ports on the filter housing are available.

With contamination of the filter element the difference between the supply pressure and the output pressure of the filter is increasing. Depending on this pressure difference but independent of the operating pressure, visual and electrical signals are released.

A pressure difference dependent measuring piston, charged with supply pressure and output pressure, moves towards a measuring spring.

Concerning the OE1 a permanent magnet which is integrated in the measuring piston switches depending on the gauge length a Reed-contact (magnetic-switch) and releases electrical control signals upon reaching a pressure difference of 70%.

The OE2 is equipped with two magnetic switches which release electrical control signals in a sequence of 70% and 100% of the switching pressure.

The visual control signal is indicated by a blue-red scale which is connected to the magnetic measuring piston.

In the range of low pressure differences depending on the gauge length of the measuring piston the blue range of the scale appears first.

The indicated switching pressure difference is reached when the dividing line between the red and the blue range of the scale points to the marking on the display window.

2. Operating instruction

- Connection

Upon connecting the indicator to the filter make sure that the connection marked „+“ is connected to the dirt oil side (IN) and the connection marked „-“ is connected to the clean oil side (OUT).

3. Maintenance

The device is maintenance-free. However, make sure that no solvents get in touch with the display window visual indicator nor with the piston-spring-system of the clogging indicator.

Note:

For clogging indicators being used in hazardous locations the INTERNORMEN documentation N° 41874 "Supplementation of the Operating Manual for the use of clogging indicators in potential explosive areas.