

Insight Monitor

Compact System Monitoring and Filter Cleaning Controller



Description

Insight Monitor is a complementary solution to the Insight Control Panels, enabling either a pure System Monitoring solution or including a Filter Cleaning Controller functionality.

The panel utilizes Nederman Insight Control, a digital touchscreen controller that collects sensor data enables monitoring of the complete filtration system. It complies with industrial alarm standards and acts as a gateway to connect to Nederman's cloud-based IIoT platform, Insight. It can be used on new Nederman SmartFilters, as well as added easily to any existing pulse jet cleaned filter system.

It is available in two configurations, whereas Monitor focus on pure system monitoring; Monitor + in addition enables filter cleaning control functionality*. With Nederman IntelliPULSE™ filter cleaning algorithm integrated, Insight Monitor enables lower operating emissions, reduced energy consumption and help maintaining system airflow. It automatically varies and optimizes off time between pulses to maintain a constant differential pressure drop across the filter element while using the least amount of compressed air.

* Filter cleaning control only for pulse jet cleaned filters.

Option

- Pulse jet filter cleaning system control
- IntelliPULSE™ filter cleaning algorithm
- Range of standardized sensors for complete system monitoring
- IIoT platform Nederman Insight for real time monitoring, visualization and tracking of system performance, including customized dashboards, alarms and reports

Specification

- Full system monitoring
- Nederman Insight Control as main unit
- Connection of several sensors & devices
- 8" coloured touch display
- Modern and aesthetic user interface
- Designed in accordance with global industrial alarm standards ISA 18.2
- Alarm outputs
- Very user intuitive and easy to understand

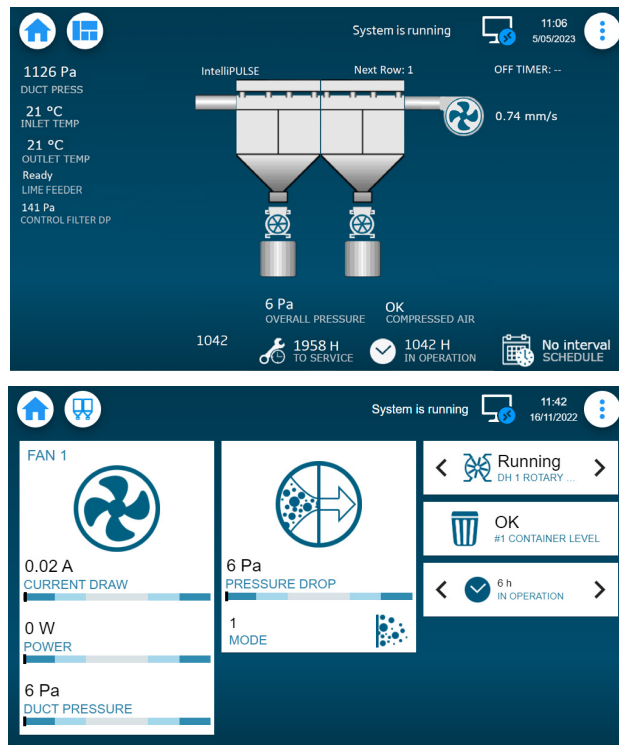


Main unit	
Insight Monitor*	73008840
* available with two different configurations Monitor and Monitor + in same hardware - can be selected in software configuration wizard	

For full system monitoring following monitoring points are available:

- Fan data from VFD over Modbus RTU (Danfoss, Vacon, Invertek, LG, Schneider, ABB supported)
- Fan ready and running signal as separate inputs
- Pressure drop over main filters (dp pressure sensor included on Insight Control)
- Fan vibration*
- Low compressed air*
- Container level*
- 2 x rotation (Rotary valve or/and conveyor)*
- Explosion / Fire detection*
- 2 x filter temperature (non-Atex version)*
- 1 configurable analog input 4...20 mA
- 1 configurable digital input

* Standardized range of sensors available.



On-site monitoring with Insight Control HMI (8" colour touch display)

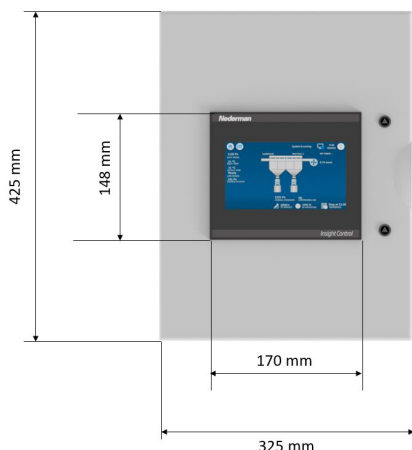
Alarm output

An Alarm output is available to enable sharing alarm notification from Insight Monitor to external devices via a digital alarm output

Accessories

Dedicated sensors are available via link [Sensor installation guide](#).

Technical specification



Insight Monitor	
Physical	
Dimensions	325 mm x 425 mm x 185 mm
Weight	7,5 kg
IP rating	IP 66
Enclosure Material	Glass fibre reinforced polyester
Short circuit ratings	10 kA
Control Voltage	24 VDC
Ambient conditions	
Temperature	min. 0°C – max. 40°C
Placement	Indoor use only*
*Outdoor only possible with UV and rain protection, mentioned temperature range etc.	