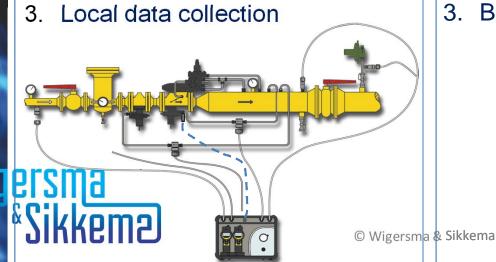
PLEXOR compared to SCADA

PLEXOR

With the **PLEXOR** inspection system the main components of gas pressure regulation stations can be individually tested on function, performance and reliability

Main features:

- 1. Functional- and safety inspection
- 2. Periodical inspection

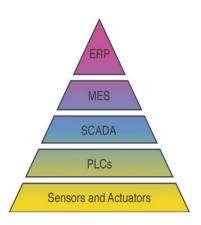


SCADA

Supervisory Control and Data Acquisition (SCADA):control system architecture for collecting, transmitting, processing and visualizing of real time measurement- & control signals in industrial processes

Main features:

- 1. Process control
- 2. Continuous 24/7 monitoring
- 3. Bi-directional data transmission



Scada

- Continuous monitoring using a **SCADA** system can provide the following information about a pressure regulating station:
 - Network pressure at inlet and outlet
 - " Various temperature readings
 - " Signalization of the activation of an SSV (Slam Shut Valve)
 - Opening of the door of a pressure regulating station
 - " Etc.
- The gas pressure regulating station continues to operate normaly while being monitored.



PLEXOR

- During a functional inspection with **PLEXOR** the following data is gathered:
 - Regulated pressure of the regulator over the vent valve
 - Closing pressure of the regulator
 - Internal leakage of the regulator
 - Tightness of the membrane of the SSV
 - " Maximum tripping pressure of the SSV
 - " Internal tightness of the SSV
 - Activation pressure of the SRV (Safety Relief Valve)
 - Closing pressure of the SRV
 - Internal leakage of the SRV
- Analysis of this data clearly shows how a gas contol line performs under various conditions, and if it is safe.
- This data can not be obtained by a **SCADA** system.



PLEXOR

PLEXOR is used for **safety**- and **functional inspection** of the various components of a gas control line, like pressure regulators, slam shut valves (SSV) and safety relief valves (SRV).

Each component is tested individually and in isolation.

It is possible to determine for each component if

maintenance is required.





PLEXOR compared to SCADA

- **PLEXOR** is used for **periodical safety- and functional inspection**, and not for **continuous monitoring**. The interval between inspections varies and depends on company policy and operating pressure.
- During a functional inspection PLEXOR is **temporarily** connected to the gas control line via hoses and system couplings. During the **functional inspection** the gas flow through the gas pressure regulating station has to be interrupted in order to perform certain tests.
- SCADA usually runs 24/7 and is not a specific technology but a type of application. Operational data is continuously gathered to control and optimise a system or a process.



Conclusion

- The **PLEXOR** inspection system and **Scada** are two completely different systems.
- Both can provide very valuable information about the gas pressure regulating station.
- Scada can monitor the station and determine if certain events take place.
- Performing a functional inspection with the PLEXOR inspection system can provide information about the correct functioning of the individual components.

