

InduSol America - Specialist in Industrial Networks

SIEDS

Smart industrial environment digitalization sensor



Application Description

Condition Monitoring























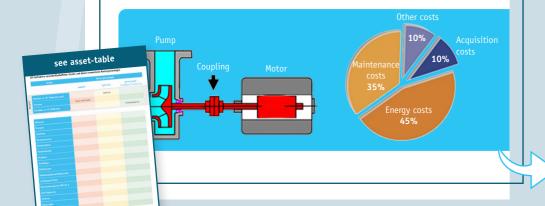
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Localization of wear and tear assets

What are typical assets subject to wear and tear in manufacturing companies that must be given attention at certain intervals?

Example: Motor-Pump Combination

Incorrect adjustment of the motor shaft to the pump shaft increases wear.



Selection of the appropriate SIEDS parameter

Which physical parameter(s) of the SIEDS can be used to analyze the asset for wear and tear?

Example: Motor-Pump Combination

Incorrect adjustment causes vibrations in the vicinity of the motor-pump combination, which has an acceleration and an acoustic sensor can be recorded.



Assembly of the SIEDS

How do I ideally mount a SIEDS on an asset?

When mounting a SIEDS on an asset, it is particularly important to ensure that a high-quality

mounting surface is available for attachment.

The primary goal, especially with an acceleration sensor, is to achieve a maximum usable frequency response for carrying out a vibration measurement. Since the surface condition during assembly

influences the transmission properties. In the case of higher frequencies in particular, special attention must be paid to the surface finish, the sensor alignment and the tightening

torque during assembly.

Application Example



Monitoring Phase

SIEDS can be connected to a condition monitoring software solution.

This makes it possible to centrally monitor all relevant data from assets subject to wear and tear and other network-capable devices (other sensors, switches, frequency converters) and to use them for predictive maintenance.



Training Phase

With the self-learning teach mode, the SIEDS acquires all the necessary environmental information via a defined time window, either to provide initial maintenance instructions directly after installation, or to provide the basis for the subsequent threshold value setting. All necessary information and configurations can be conveniently carried out directly via the web interface.



SIEDS Multi Sensor



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Actual recording of assets subject to wear and their current maintenance specialist strategy

Assets		Maintenance Strategy	
	Reactive	Cyclic	Permanent Condition Monitoring
Motors (e.g. compressors		inspection	
Pumps	exchange if broken		
Transmission (e.g. lifting crane)			vibration sensor
Motors			
Pumps			
Gear			
Compressors			
Conveyor chains			
Conveyor belts			
Conveyor			
Plain bearings			
Seals			
Fieldbus systems/Networks			
Vents/Filters			
Power Supply 400/24V			
UPS Batteries			
Blower			
Heaters			
Hydraulics			



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