

**AX Industrial App GASA-MIP**



## Key features

### At a glance



The Festo AX Motion Insights Pneumatic software is an “industrial app”. It enables the condition of pneumatic drives to be continuously monitored.

AX Motion Insights Pneumatic provides an indicator to assess the risk of a pneumatic drive failing.

This is calculated continuously and in real time, and can either be displayed or processed as a data stream via MQTT.

This makes it possible, for example, to start maintenance measures depending on the condition of the drive.

### Description

AX Motion Insights Pneumatic uses machine learning to monitor pneumatic actuators and issues an alert in case of operational anomalies. As an industrial app, AX Motion Insights Pneumatic is provided in the form of so-called Docker containers.

This means it can be flexibly integrated into existing IT systems and platforms. AX Motion Insights Pneumatic can be operated on on-site industrial PCs, virtual machines and servers in your own network or in a cloud infrastructure.

The prerequisite is that a so-called container runtime environment be provided. AX Motion Insights Pneumatic consists of the application core for monitoring the pneumatic drives and the connection controller.

The connection controller retrieves the data from the controller and makes it available to the application core (currently available for Siemens S7). A PLC function block to provide the correct data on the control side is included.

### Benefits

- Continuous monitoring of pneumatic drives for wear and anomalies
- Available via PLC module
- Easy to install without prior knowledge
- Can be used for all pneumatic drives regardless of manufacturer
- Simple display and access via browser

## Datasheet

- Software for continuously monitoring the condition of pneumatic cylinders
- Risk indicator for component failure
- Simple visualisations, web-based
- Easy to commission using the installation wizard
- Can be used flexibly thanks to Docker technology (edge computers, cloud, etc.)



General technical data	
System requirements	Processor: min. 4 core, x86-64 bit (core i5 or higher)
	Hard drive: 120 GB or more
	Memory: 8 GB or more
	1x network interface
	Display optimised for: 1024x768 or higher
Software requirements	Installed Docker runtime (OCI container)
	Docker Compose v2.0
Recommended browser version	Optimised for Webkit-based browsers and Firefox
Language	English
	German
Protocols used	HTTP
	MQTT
	S7
Pneumatic components supported	Linear cylinder with two mounted limit switches
Travel time requirement	The travel time of the cylinder must be greater than ten times the PLC cycle time
PLC requirements	Siemens S7 PLC (300/400 or 1500 series)
	TIA V16 or S7 Classic
	Possible to install function blocks in the PLC

Ordering data				
Provision	Licence period [months]	Number of drives supported	Part no.	Type
As software to operate on your own servers, cloud, industrial PCs or other	12	10	<b>8201760</b>	<b>GASA-MIP-CTR-12M-10</b>
		100	<b>8201761</b>	<b>GASA-MIP-CTR-12M-100</b>
		1000	<b>8201762</b>	<b>GASA-MIP-CTR-12M-1000</b>