

Affordable Continuous Automated Vibration Machine Monitoring to
Eliminate Costly Unplanned Downtime

Achieve a drama-free, no-surprises operation

You don't have to rely on an expert to monitor your machines periodically. Using the power of Analyst Inside you get more accurate around the clock monitoring with actionable recommendations on how to correct machines problems that are detected – and you'll actually know what's wrong to avoid unplanned downtime.

How it Works

1 Gather Vibration Data

Get real-time vibration data from your machines

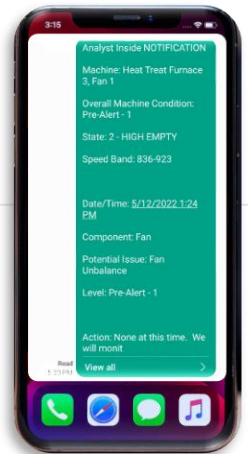
2 Continuously Analyze Data

Analyst Inside analyzes the data using 15+ standard vibration analysis techniques

3 Get Actionable Alerts

Receive notifications when a machine issue is detected & recommendations in plain English to address the issue

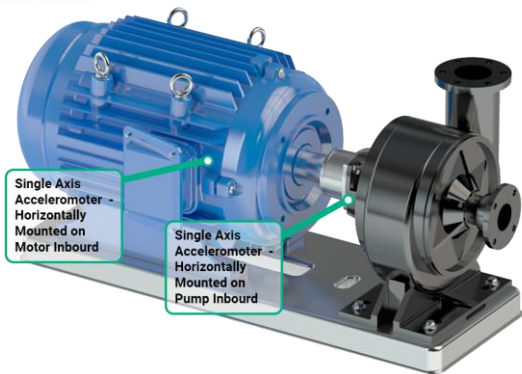
Active Alarms						
Group	Machine/Component	Level	Date/Time	Issue	Recommended Action	Ack
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Critical - 5	11/19/2021 1:52 AM	Bearing issue	Consider replacing the bearing or try adjusting the lubrication if replacement is not practical at this time	
Show Cleared Alarms Show Unspecified Alarms						
Group	Machine/Component	Level	Date/Time	Issue	State	Speed
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Critical - 5	11/19/2021 1:52 AM	Bearing issue	2 - Low Speed	1000 - 1200
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Urgent - 4	9/13/2021 9:43 PM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Alarm - 3	9/10/2021 11:15 PM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Alarm - 2	8/14/2021 3:12 AM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Pre-Alert - 1	6/16/2021 8:24 AM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	OK	4/25/2021 6:22 AM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Alarm - 3	4/24/2021 9:07 AM	Bearing issue		
Solid Waste	Solid Waste Lift Motor Motor - Inboard	Alarm - 2	4/11/2021 4:24 PM	Bearing issue		



From: AnalystInside@YourCompany.com
 Sent: Monday, September 13, 2021 9:34 PM
 To: Operations@YourCompany.com
 Subject: Analyst Inside Notification - URGENT

Machine: Solid Waste\Solid Waste Lift Motor
 Overall Alarm Level: Increased
 Component: Motor - Inboard
 Potential Issue: Bearing issue
 Level: Urgent - 4
 State: Low Speed
 Speed Band: 1000-1200
 Action: Consider replacing the bearing or try adjusting the lubrication if replacement is not practical at this time.
 Urgency: ASAP

Click here for more information on all active alarms on this Analyst Inside Module: <https://10.214.214.100/Alarms>



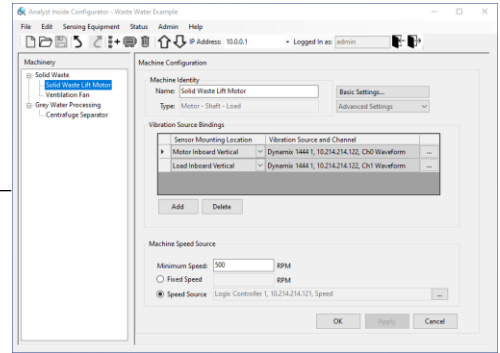
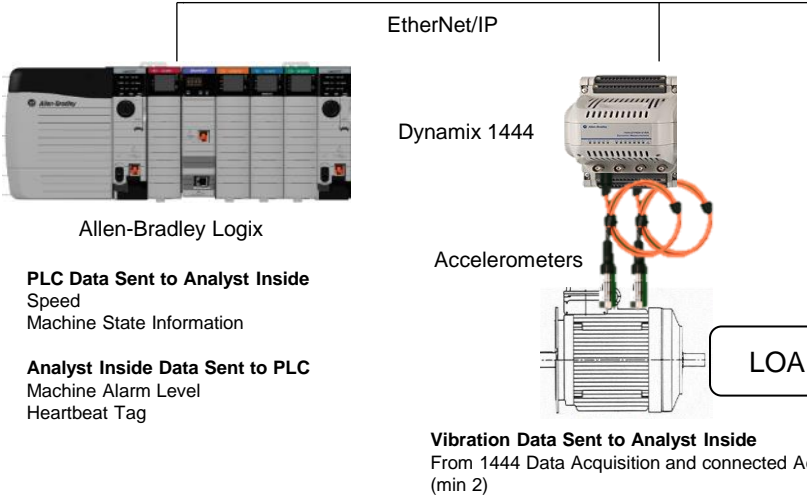
Stop reacting to machine issues and take control with Analyst Inside

If you don't know your machine has an issue, you can't fix it. And when you can't fix it, it will fail at exactly the wrong time. By deploying Analyst Inside, you can detect issues that are developing BEFORE they lead to costly unplanned downtime. The result is a plant that runs as you planned with no surprises.



Simple Setup with Instant Monitoring

Straightforward installation without the need to be a vibration expert



Straightforward Setup

Tell the configuration software what type equipment you are monitoring and where the sensors are located

PLC Data Sent to Analyst Inside

Speed
Machine State Information

Analyst Inside Data Sent to PLC

Machine Alarm Level
Heartbeat Tag

Vibration Data Sent to Analyst Inside

From 1444 Data Acquisition and connected Accelerometers (min 2)

Technical Data

Analyst Inside Configuration Software	Operating System	Windows 10	
	Memory Required	2 GB	
	Hard disk space required	30 MB	
	Minimum Display	800 x 600	
Analyst Inside Embedded Software	Maximum # of Axis of Motion Monitored	100	
	Minimum # of Axis of Motion Required	2	
Hardware	Ethernet	2 10/100/1000 Mbps Ports	
	Power Input Voltage	12-24 V	
	Power Adaptor	AC to DC, DC12-24V	
	Power Consumption	Typical	12V@0.655A
		Max	12V@0.987A
	Mounting	Support Wall Mount (Default) VESA/DIN Rail (Optional)	
	Operating Temperature	-20 ~ 60 °C	
	Storage Temperature	-40 ~ 85 °C	
	Relative Humidity	95% @ 40 °C (non-condensing)	
	Vibration During Operation	With SSD: 3Grms, 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock During Operation	With SSD: 30G, IEC 60068-2-27, half sine, 11ms duration	
	EMC	CE/FCC Class B	
	Safety Certifications	CCC, BSMI	

Part Number	Description
ANALYST INSIDE (1756)	Analyst Inside embedded application software on a 1756 Compute Module capable of analyzing up to 40 axis of motion
69EATM-TMGR (AI)	Analyst Inside embedded application software on 1769 t-Manager capable of analyzing up to 40 axis of motion
ANALYST INSIDE (IPC)	Analyst Inside embedded application software on an industrial PC capable of analyzing up to 100 axis of motion
ANALYST INSIDE (PT)	Each "point" monitors one axis of motion. Minimum of 2 are required. Maximum of 100

Your local Analyst Inside contact:

For more information visit
<https://www.theanalystinside.com>



Technology Partner

A ROCKWELL AUTOMATION PARTNER



ANALYST INSIDE™