

Smart Monitoring Rotating Equipment with **TRENDnet** and **SEMIOTICLABS**

TRENDnet's industrial PoE+ DIN-rail switches and Semiotic Labs' smart conditioning monitoring solution work together to prevent unplanned downtime of critical motors and rotating assets. Semiotic Labs selected TRENDnet's 8-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch (TI-PG80) to be integrated into their SAM4 system, a smart conditioning monitoring solution for AC induction motors and rotating equipment.

TRENDnet's rugged and reliable industrial Ethernet switches are designed for harsh and industrial environments such as warehouses, refineries, and factories. Networked with TRENDnet's TI-PG80 industrial switch, the SAM4 monitoring solution by Semiotic Labs provides organizations with early stage detection of upcoming critical asset failures. This allows users to schedule regular and required maintenance, ultimately saving on high costs caused by unplanned downtime and major hardware replacements.



TRENDnet's TI-PG80 industrial switched installed on a DIN-rail as part of the SAM4 smart monitoring system.



Installing TRENDnet's TI-PG80 industrial switch to the DIN-rail mount.

The SAM4 smart conditioning monitoring solution is made for low voltage, direct online, or VFD-driven AC induction motors, and most types of rotating equipment such as pumps, conveyors, compressors, blowers, and fans. TRENDnet's industrial switches allow the SAM4 system to be networked, making critical and time-sensitive data accessible to executives and other key decisionmakers. Dual redundant power support and an alarm relay triggered by power failure featured on the TRENDnet industrial Ethernet switches help to prevent further system failure.

The SAM4 solution has already been installed inside a countless number of Motor Control Cabinets with clients all over the world in varying industries, including steel factories, mining, national military, international beer brewing brand, tank storage, and industrial baking. With its rugged design and IP30 rated metal enclosure, TRENDnet's industrial PoE+ switches are ideal for these industrious working environments, operating in extreme temperatures (both high and low), and with resistance to vibrations and shock.

TRENDnet

TI-PG80
8-Port Hardened Industrial
Gigabit PoE+ DIN-Rail Switch

Semiotic Labs

SAM4, Smart Condition
Monitoring Solution

Application Purpose

Monitoring AC induction motors
and rotating assets

Sample Client Industries

Steel, mining, military, brewery,
tank storage, industrial bakeries

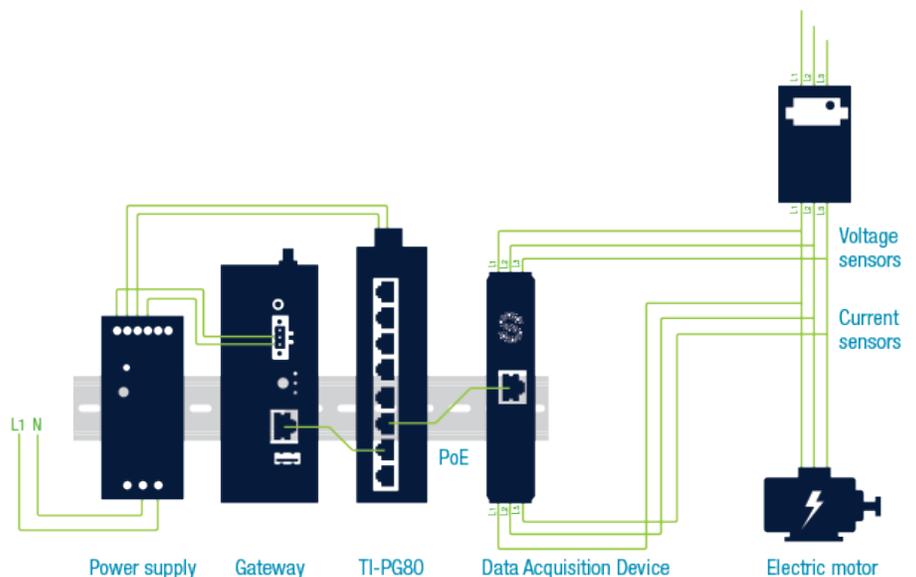


Diagram of Semiotic Labs' SAM4 smart monitoring solution, networked with TRENDnet's TI-PG80 industrial switch, and with resistance to vibrations and shock.