

**NEW AND
WORLD UNIQUE**

PREDICTIVE AND MULTIFUNCTION ANALYSER

For generators and motor-based system

PA-01

The **PA-01** is a result of the partnership of the biggest manufacturer of panel meters and electrical analysers in Brazil, **KRON**, with **MCM Technology**.

PA-01 is a 2-in-1 instrument::

- ⚡ **Multifunction analyzer** The **PA-01** measures up to 44 *true-rms* electrical parameters with high accuracy.
- ⚡ **Predictive analyzer** The **PA-01** uses **MCM technology** to continuously monitoring electrical (stator, rotor) and mechanical (bearing/bearing housing, load imbalance, coupling, misalignment, shaft, etc...) on three-phase AC motor-based equipments.

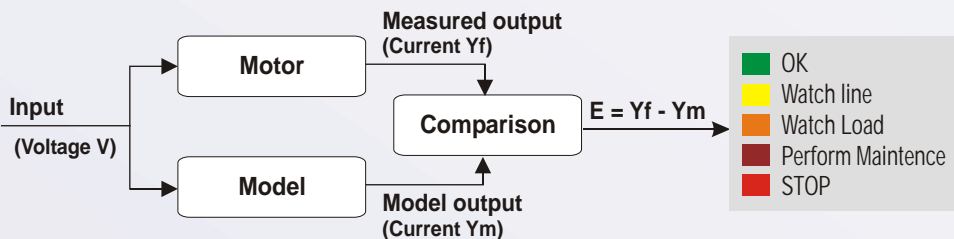
The measurement of electrical parameters and predictive functions can be made through front panel or serial output (RS-485). The installation and use of **PA-01** is very easy and user friendly.

Applications

- Pumping Systems
- Industrial machines
- Military area
- Gas & oil plants
- Any three-phase AC motor-based process
- Compressors
- Fans
- Generators
- Transformers
- Gear boxes

Operating Principle

The primary function of MCM module is to provide early warning of progressively deteriorating machine and process conditions. The MCM technology is a unique solution that safeguards rotating machinery from all common faults, both electrical and mechanical.



PA-01 detects both electrical and mechanical faults just by measuring three-phase voltage and current signals of motor. The relationship between input (voltage) and output (current) is very sensitive to mechanical changes in motor. Since such changes affect the calculated parameters, it is possible to detect mechanical faults in a very early stage.

- Measures up to 44 electrical parameters
- Power Quality functions
- Predictive function with MCM technology
- Provide early warning of electrical or mechanical faults



Measurement Parameters

- ▶ Voltage
- ▶ Current
- ▶ Active Power
- ▶ Reactive Power
- ▶ Apparent Power
- ▶ Power Factor
- ▶ Frequency
- ▶ THD
- ▶ Demand (W and VA)
- ▶ Active Energy
- ▶ Reactive Energy

For each phase and three-phase values

Technical Specifications

Circuit to measure: *Three-phase (with or without neutral)*
 Voltage input: *up to 500Va.c.*
 Current input: *5Aa.c.*
 (adjustable current or voltage transformers ratio)
 Operating range: *80 to 120% of nominal values*
 External supply: *120/220Va.c.*

Dimensions: *96x96x130mm*
 Housing: *thermoplastic*
 Mounting: *lateral clips*
 Operating temperature: *-10 to 60° C*

Serial output: *RS-485*
 Baudrate: *9,6kbps to 57,6kbps*
 Protocol: *MODBUS-RTU*

For more information, please contact us:



KRON Instrumentos Elétricos Ltda.
 São Paulo - SP - Brazil
 Phone: +55 11 5049-6000
 Email: energia@kron.com.br
 Website: <http://www.kron.com.br>

