



# COMPACT DIGITAL PUMP PROTECTOR

SIMPLE INSTALLATION



## PROTECTION AGAINST:

- *Dry Pump Running*
- *No Prime*
- *Cavitation*
- *Overload*
- *Impeller Jam*
- *Bearing Failure*
- *Dead Heading*

*\*Free 30 Day Trial*



TechnaGuard   
POWER MONITORING



## THE PROBLEM

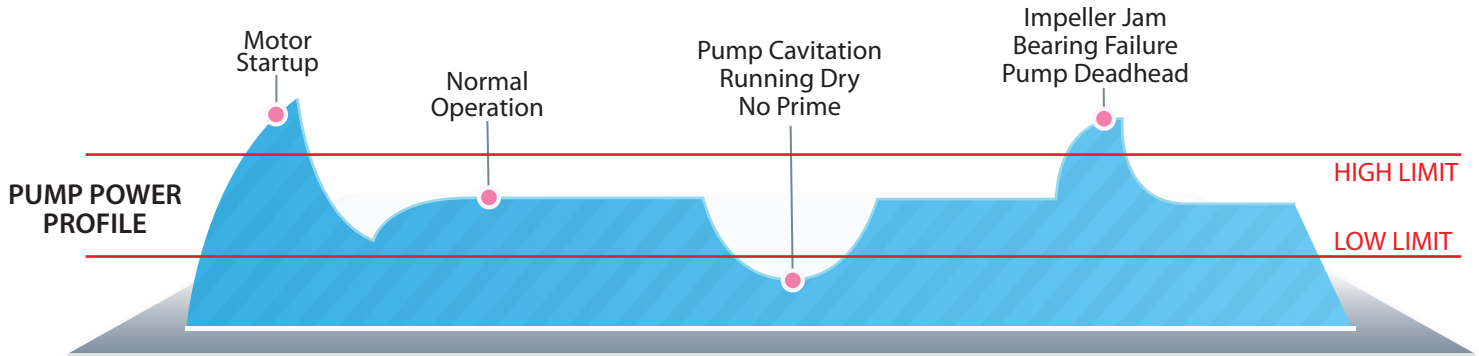
### PUMP FAILURE

Dry Pump Running, No Prime, Cavitation, Overload, Impeller Jam, Bearing Failure, Dead Heading



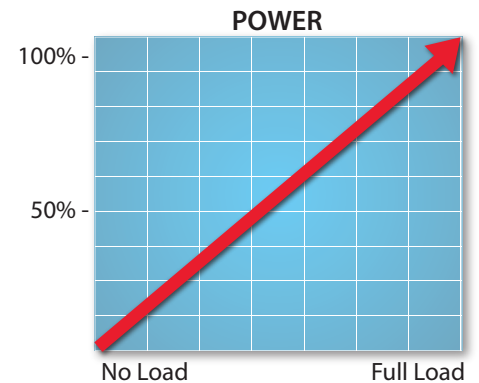
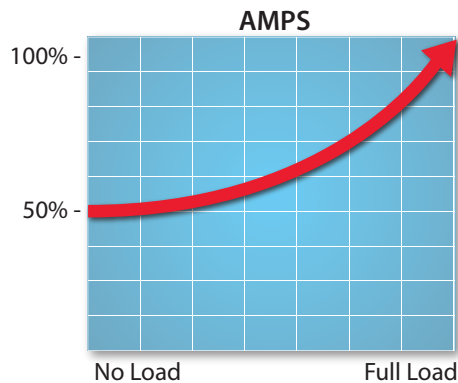
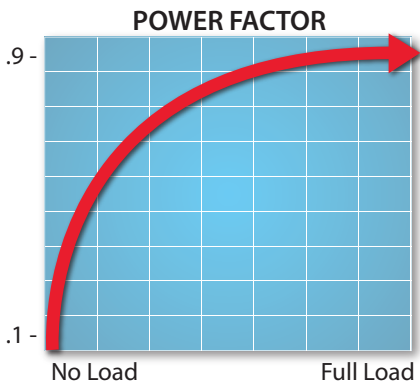
## THE SOLUTION

### USE MOTOR POWER TO MONITOR PUMP PROFILE



## WHY MONITOR POWER?

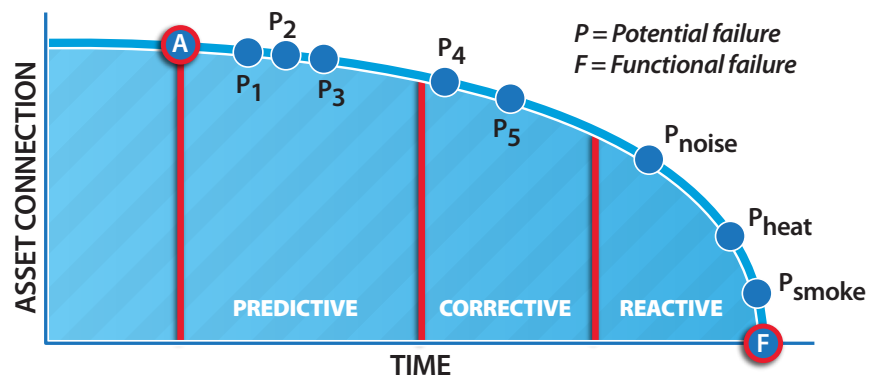
Measuring power factor or current (Amps) is inaccurate because the change is non-linear compared to motor load. Measuring power is linear and provides the most accurate and useful data about motor health.



## BENEFITS

The TechnaGuard Pump Protector eliminates the need for excessive physical pump seal/bearing inspections, which saves time, money, and manpower. The unit will alert maintenance teams to arising issues in the predictive stage, allowing for scheduled maintenance over costly reactive maintenance. Payback can be in days considering the cost of a single pump system failure.

### P/F CURVE OF EXTENDED ASSET LIFE





## FEATURES



### **EASY SETUP**

Color IP65 touchscreen simplifies programming  
Set up wizard  
Simple panel wiring with latch CT and plug & play terminals

### **ALARM OUTPUT RELAY & ANALOG**

High limit form C relay  
Low limit form C relay  
4-20mA analog outproportionate to load

### **TOUCHSCREEN PROCESS VALUES**

Horsepower  
Watts  
Voltage  
Amps  
Percent of full load

### **4 TIMERS**

High on delay adjustable timer  
Low on delay adjustable timer  
Startup adjustable timer  
Boot up fixed timer

### **MOUNTING OPTIONS**

DIN Rail mount  
\*IP65 Remote keypad  
\*Wall mount in enclosure

### **EXTRAS**

Local or remote reset  
Monitor or protection mode  
60 Amp Open split-core (100 Amp option)  
Works on output of variable frequency drives  
Touchscreen lockout  
\*USB Flash port for data logging





### SPECIFICATIONS

|  |  |
|--|--|
| <b>Enclosure</b>                         | Material: Biodegradable Polylactic Acid Thermoplastic Polyester<br>Dimensions: 100mm x 64mm x 120mm<br>4.0 in x 2.5 in x 4.75 in<br><i>(Dimensions do not include wire or connector protrusions)</i> |
| <b>Mounting</b>                          | Standard 35mm DIN Rail<br>Panel Mount Monitor with Bezel*  |
| <b>Wiring</b>                            | Pluggable Screw Terminal Blocks<br>Snap on CT with Plug<br>Step-Down CT (Optional)   |
| <b>Display</b>                           | 2.4 in LCD Touchscreen   |
| <b>Capacity</b>                          | 100-480 VAC<br>1-60 Amps with Standard CT<br>500+ Amps with Step-Down CT   |
| <b>Programmable Delay Trigger Timers</b> | Motor Start Timer 5-999 Seconds<br>Low Trip Delay 0.5-999 Seconds<br>High Trip Delay 0.5-999 Seconds   |
| <b>Outputs</b>                           | High Trip Relay: Form C (1 Amp 120 VAC/24 VDC)<br>Low Trip Relay: Form C (1 Amp 120 VAC/24 VDC)<br>4-20mA Analog Instant Power Reading, 500 Ohm Max Load   |
| <b>Response Time</b>                     | 500 Milliseconds   |
| <b>Operating Conditions</b>              | 0-60 Deg C (32-140F)<br>10-90% Humidity (Non-Condensing)   |
| <b>Power</b>                             | 24 VDC (+/- 10%)<br>0.3 Amps Max<br>7.2 Watts Max  |

\*Future Model Option



Since 1990 Techna-Tool has specialized in providing reliable tool, motor, and process monitoring systems for a variety of manufacturing and industrial applications. With thousands of installations worldwide and a team of service technicians, Techna-Tool ensures reliable and effective systems.