

# GUARD DOG

You are not really protected unless you have a Guard Dog!



The image displays the ACPAK AC Extruder Duty Package, a large industrial machine with a grey cabinet. The front panel features a digital display, three temperature gauges (°C and °F), and a ventilation grille. A large blue arrow points from the machine's internal components to a tablet displaying the Guard Dog monitoring interface. The tablet shows the following data:

- Drive 1**
  - Command Speed - RPM: 80.0
  - Actual Speed - RPM: 80.8
  - Actual Load - A: 0.0
- Buttons:** Main, Setup, Trend, Alarms, Reset, Run, Stop, Drool.

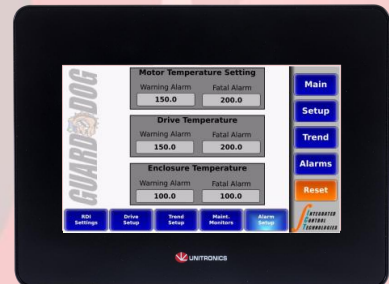
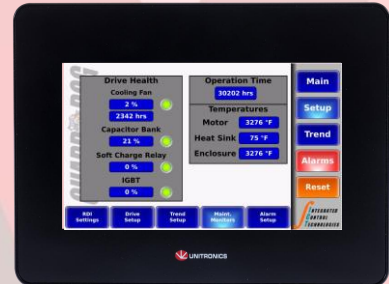
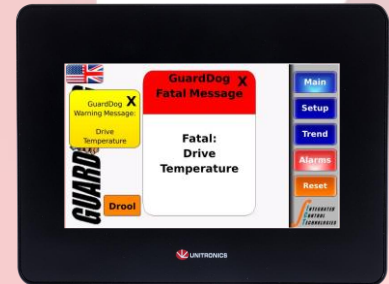
Below the tablet, a motor assembly is shown with a red laser line and the word **VIBRATION** overlaid, indicating the system's ability to monitor and alert on vibration levels.

The "Extruder Guard Dog" is an innovative product that creates a new way of monitoring and protecting your extruder. This product when combined with the ACPAK and the Reliance RPMAC Extruder Duty Motor offers the following capabilities.



# FEATURES

- **Extruder Speed and Load Monitoring:** Monitors Motor Amps and Extruder Speed that can be configured as screw speed with warning settings
- **Trending:** Speed and Load Trending of the Extruder Drive
- **Screw Break Prevention:** Starts the extruder at zero speed and accelerates the motor slowly
- **Screw Wear Monitor:** Monitors the revolutions of the screw with custom warning settings
- **Cold Zone Warning:** When starting the extruder, it warns the operator to confirm that all the barrel zones are at temperature prior to starting
- **Drool Speed Button:** Preset drool speed that makes start-up simple
- **Motor Temperature Monitor:** Monitors the temperature of the motor with custom settings for warning and shutdown
- **Monitors ACPAK Temperature:** Monitors the temperature inside the ACPAK with custom settings for warning and shutdown
- **Monitors the AC Drive Temperature:** Monitors the temperature of the heat sink with custom settings for warning and shutdown
- **Monitors Drive Health:** Monitors the life of components of the AC Drive
- **Drive Fault Log:** Monitors the last 100 faults of the AC Drive
- **Remote Monitoring:** Ethernet Connection allows users to view the screen using VNC from their computer
- **Email Warnings:** When connected to your network, an email can be sent warning of a potential problem
- **Vibration Warning:** Optional feature to detect excessive motor vibration



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