



# 3500

## PROCESS MONITOR



### Advanced Shop Floor Monitoring Features in a Cost Effective Package

The IMPAX 3500 sets a new standard for process monitoring systems and shop floor data collection devices. The IMPAX 3500 is the only force monitoring system of its kind to not only track Productivity, Machine Speed, and Process Errors, but also actual Machine Downtime and Efficiency. Considerable savings can be realized by using these features to increase efficiency and improve machine utilization. The IMPAX 3500 is fully network capable and offers all of these features at a very reasonable price.

The new IMPAX 3500 can automatically convert from process monitoring mode to downtime analysis mode based on the status of the machine. When the monitor detects a stop condition, the IMPAX 3500 alerts the operator and begins timing the event. The user is then required to enter a two-digit downtime code before starting the machine. All accumulated downtime is then stored in buffers for analysis later. When the IMPAX 3500 is connected to a PC running IMPAXNET, the supervisor can observe multiple machines from a PC, generate production, uptime, efficiency, and downtime reports using either Paradox or Microsoft Access database programs; or move data from the Access Data Base to other analysis programs.

#### Monitoring Functions

The IMPAX 3500 uses a patented monitoring technique to analyze force signals coming from piezo sensors mounted into critical tool sites. The IMPAX unit stops the machine when forming forces change and breach a control limit. There are three (3) counters available: a Total Counter, a Shift Counter and a Tool Life Counter. When a pre-set total count is reached, the system automatically stops the machine and alerts the operator. The 3500 also monitors and displays machine speed for consistency.

#### Software Features

The new software in the IMPAX 3500 analyzes input signals using either an integration or peak force technique. Each monitored channel has a programmable sensitivity protected by supervisory key. Automatic compensation for machine warm-up and material variation is incorporated into the software. The system can also be set-up to track downtime by requiring the user to enter a two digit code whenever a stop occurs.

#### Technical Data

Up to four (4) sensor inputs, two (2) timing inputs, four (4) relay outputs, networking option, machine interface package and Nema enclosure.

#### Applications

Suitable for all types of cold heading equipment as well as thread rollers, stamping presses, multi-slides, nail makers, and insertion applications.

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