



PRODUCTION MONITORING SYSTEM

ENSURE Accurate Timely Information

ELIMINATE Manual Downtime Entry

VIEW Real-Time Shop Floor Data

COLLECT Data Automatically

CREATE Informative Reports

TSS Unit

The new IMPAX TSS unit applies a proprietary set of software to analyze input signals from sensors or machine controllers to determine the status and speed of any machine or process. The system will analyze and then record process-critical information pertaining to machine run condition, uptime and downtime, speed, productivity and efficiencies.

TSS-NET

As part of the TSS System, this Excelbased software program can be used to enter the setup parameters into any one of up to ninety (90) TSS Units on the Ethernet network. The status of each machine can then be viewed from any PC running the TSS-NET program. TSS-NET also collects data from each TSS unit and puts the data into CSV files for later processing and analysis. Reports of many types can be generated from the collected data and/or the data can be transferred into other in-house programs for further processing. Working together, the TSS Unit and TSS-NET Software will provide data that will allow you to reduce costs and increase production.



IMPAX TSS Features:

Current Machine Status

Uptime and Downtime Minutes by Shift and Daily Totals

Log of all Downtime Events

Production Counts by Shift and Daily Total

Instant Efficiencies

Current Shift Efficiencies

Daily Efficiencies

Weekly, Monthly, & Yearly Data

Technical Data

- -Two high-speed inputs for process sensors
- -Other inputs for machine controller integration
- -Optional Interlock relay
- -Additional relays for optional use
- -Available Ethernet port
- -Available Serial 232/485 port
- -Powered by 24VDC or 120VAC
- -Optional NEMA-4 enclosure

PROCESS TECHNOLOGIES GROUP, INC.

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IMPAX TSS VIEWING SYSTEM **Current Status Production Counts** Daily Weekly Monthly Yearly Machine Status: UP Shift 1 41000 41000 246851 1458623 Current RPM: 95 Shift 2: 248632 1485236 0 0 Current PPM: 94 Shift 3: 0 232147 1423965 n Current Scrap: 0 Total: 41000 41000 727630 4367824 **Daily Uptime and Downtime** DAILY TIMES MINUTES 0 500 100 200 300 400 422 1 21 ■ UPTIME 2 SHIFT 3 ■ DOWNTIME 422 21 **Efficiencies** Instant Efficiencies Current Shift Efficiencies Daily Shift Efficiencies Actual Planned Effic Actual Ideal Effic Shift 1 Shift 2 Shift 3 Total RPM 95 100 95% Time: 422 480 88% Time 88% 0% 0% 88% PPM 94 100 94% Feed: 41000 41000 100% 100% 0% 0% 100% Feed PPM RPM 85% 0% 0% 85% Effic Cycle: 41000 48000 85% Cycle Feed: 94 95 99% Parts: 41000 48000 Parts: 85% 0% 85% 85% **Uptime & Downtime Daily Minutes** Weekly Minutes Yearly Minutes Monthly Minutes Resp. Up Down Resp. Up Resp. Up Resp. Up Down Down Down Shift 1 2552 23 15246 201 Shift 2: 0 237 15 16248 395 Shift 3: 0 2691 31 14253 351 186 0 Total: 422 6 422 6 7618 164 69 45747 782 Downtime Events 1-16 Downtime Events 17-32 Event Start End Resp. Down Event Start End Resp. Down Time Time Time Time Time Time Time Time 1436 1439 2022 17 2018 2 1401 1404 18 1952 1957 3 1258 1305 19 1815 1817 1102 20 4 1103 1647 1650 21 5 1032 1035 1433 1444 6 947 950 22 700 701 23 8 647 0 644 24 9 521 528 5 25 10 344 345 26

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