GEMCPU PN | GEMCPU DP/F
TOOL AND PROCESS MONITORING
GENIOR MODULAR

TOOL AND PROCESS MONITORING

GENIOR MODULAR IS AN AUTONOMOUS INTELLIGENT MONITORING SYSTEM

A permanent exchange of information takes place in the factory of the future. GENIOR MODULAR is an autonomous intelligent monitoring system that provides an automatic real-time image of a current production process. Safe and reliable machining processes are the prerequisite for economically efficient production.

GENIOR MODULAR IS A SYSTEM FOR DATA-CONTROLLED PRODUCTION

Measuring data can be collected digitally via the fieldbus interface or via sensors. Process data from several sensors can be used for monitoring strategies (“multi-criteria” evaluation). The system works mostly automatically, as the limits are automatically adjusted according to the signals. Individual adjustments can be made via the ExpertMode. Collected data is converted into intelligent data (information) which can be stored locally or on network devices for further evaluations such as analyses, trend curves, statistics or reports.

MODULARITY AND SCALABILITY

Adapting the monitoring system to dedicated systems and machines is a core element of the system.

OUTSTANDING FEATURES

- Modular design: adaptable to different machines and processes
- Extendable to machine protection and machine monitoring
- Stand-alone modules: can be integrated via CAN bus
- 10 signals: real-time monitoring
- 10 monitoring channels: monitoring of several NC channels
- Signal sampling rate: configurable from 2 – 20 ms
- Monitoring without sensors: up to 16 digital CNS signals
- Monitoring with any (additional) sensor: connection of up to 8 sensor modules
- Automatic adjustment of limits: without operator intervention
- Expert mode: individual adjustments possible
- Multi-Criteria: monitoring strategy takes several signals into account
- Adaptive Control (AC): feed rate optimization option
- MultiView: fast error analysis thanks to individually configurable display of several monitoring windows
- Plug-ins (APPs): software modules for data evaluation
- Data management and evaluation: data permanently transferred to an ARTIS SMART BOX or customer-side WINDOWS-based storage media
GENIOR MODULAR DATA MANAGEMENT

DATA STORAGE AND ANALYSIS

C-THRU4.0 Evaluation System

Data management
DataImport: data transfer from CPU module

SQL data base
Ethernet

ARTIS SMART BOX
or customer-side system
and storage medium

Tool and Process Monitoring

MultiWave with plug-ins

Machine Monitoring

GEMTMU0 plug-in

Machine Protection

GEMVM02 plug-in

GEMCMS02 for IPC4

Data management

DataImport: data transfer from CPU module

MODUL PLUG-INS

TransReport

AlarmReport

CSV-Report

data management

DataImport: data transfer from CPU module

SQL data base

Ethernet

ARTIS SMART BOX
or customer-side system
and storage medium

Tool and Process Monitoring

Digital Torque
True Power
Force
Strain
Fluid
Acoustic Emission

Machine Monitoring

GEMTMU0 plug-in

GEMVM02 plug-in

GEMCMS02 for IPC4

Machine Protection

GEMVM02 plug-in

GEMCMS02 for IPC4

Data management

DataImport: data transfer from CPU module

SQL data base

Ethernet

ARTIS SMART BOX
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and storage medium

Modul Plug-ins

TransReport

AlarmReport

CSV-Report
GENIOR MODULAR OVERVIEW

MACHINE INTEGRATION
- Modularity
- Integration into machine control
- Standard mounting rail
- Module integration
- Digital torque data
- Signal handshake

MONITORING STRATEGIES
- Monitoring strategies
- Brushing
- AC-CONTROL
- Machine Fingerprint

GENIOR MODULAR DATA MANAGEMENT
- Data import from GENIOR MODULAR
- Machine status overview
- Alarm report
- Trend report
- CSV export
- Specific data collection

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SIEMENS 828

GENIOR MODULAR MONITORING STRATEGIES
A detailed address list is available at www.marposs.com

Other brochures for downloading available at www.artis.de

For a full list of address locations, please consult the Marposs official website www.marposs.com

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