

# NEXGEN™ 5000 PLC

With

## WORLD-CLASS CPU an icon of the future

Messung Systems a performance oriented company established since two decades constantly innovates to achieve global standards in Designing & Manufacturing PLC products.

Our In-house R&D with its enviable knowledge and expertise has enabled us to launch a high performance NEXGEN 5000 Series with International Specifications.

For the first time, the high performance NEXGEN PLC Series has a world class CPU and a Windows® based IEC-61131-3 compatible Programming & Documentation Software Package.

IEC 61131-3 compatible



IEC 61131-3  
compatible

NEXGEN - 5000 PLC



### World-class CPU Features

- **16 bit Infineon Processor SAB80C167**
- **I/O capacity : 1 K Inputs + 1 K Outputs**
  - I/O racks and slots : 32 slots in upto 4 racks
- **Large Memory Capacity**
  - 16 K Marker bits
  - 32 K Bytes : Application Data Memory
  - 64 K Bytes : Program memory
- **Multi tasking : Cyclic, Periodic, Event interrupt tasks**
- **Powerful Instruction Set**
  - 8/16/32 bit and Floating point
  - Arithmetic, PID, Hysterisis,
  - Limit Alarm, Square root, Special Module data read/write and many more
- **Instruction time for**
  - Boolean - 0.75  $\mu$ S ( IL )
  - Data MOVE - 8/ 16 bit, 0.75  $\mu$ S (IL)
  - 32 bit - 1.2  $\mu$ S ( IL )
- **Application program back-up :**
  - On-board Boot-Flash,**
  - User Memory Cassette**
- **Serial Ports**
  - Programming - RS 232, 56 Kbps
  - MMI Interface - RS 422, Programmable upto 56 Kbps, Selectable protocol

# World-class CPU Features

- **Add on Interfaces**
  - RS 232, RS 422/485 Interfaces
  - CAN interface: CAN 2.0 Specifications
  - CANopen / Devicenet protocol
  - 2 Ch. HSC Input + 2 Ch. Pulse Train Output (PTO)
- **On-board Diagnostic Display & Keyboard**
- **Network Interface**
  - CAN with Add on Interface
  - Supports field-buses such as ASi, CAN, Profi-Bus, Interbus, Ethernet
- **On-line Programming Supported**
- **CPU OS upgrade via Programming Port**
- **Real Time Clock**

## CoDeSys PLC program developers' suite

IEC 61131-3  
Compatible

- **Microsoft Windows (32 Bit) Platform**
- **User friendly IEC 61131-3 compatible program editors**
- **Hierarchical graphical PLC I/O configuration programming**
- **Library management for Function and Function block**
  - Helps create application specific libraries
  - Increases re-usability of codes reducing development time
  - Password protection for codes
- **On-line Functionality**
  - Program modifications
  - Monitoring of all variables
  - Power Flow Monitoring
- **DDE Server, OPC Server for easy connectivity to MMI / SCADA / DCS**
- **Variable Trace function with graphical display**
- **Process Visualization for on-line testing**
- **Multilingual : English, German or French**

Windows is registered trademark of Microsoft Corporation

## Program editors

IEC 61131-3  
Compatible

- **Instruction List (IL)**
- **Structured Text (ST)**
- **Function Block Diagram (FBD)**
- **Ladder Diagram (LD)**
- **Sequential Function Chart (SFC)**

For more details, please refer our detailed system overview for Nexgen 5000 CPUs / User Manual for CPU 521 x Series.

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