dutt

PLC MTC-4000

DESCRIPTION

MTC-4000 is the most powerfull and reliable modular PLC of our product range. Meets most needs and can be used as long simple automation as more demanding applications. Its design allows to be flexibly upgraded at any time.

CoDeSys (www.3s-software.com) has been used as development environment. Dutt is part of worldwide network partners. Nowadays, CoDeSys is the widespread IEC 61131-3 based development tool in Europe. Among many of its advantages is the possibility of combining up to five programming languages.



Summary of advantages:

- 32 bit core, floating point capable.
- 200MHz working frequency.
- Multitasking Real Time operating system.
- Virtual file system that simplifies the following things:
 - o Automatically stores program and source code in the CPU.
 - o Make backups of the CPU content.
 - o Easy update of the CPU firmware
 - o Remote connectivity with easy use through internet.
- Failure detection and historical alarm handler.
- IP addressing with switches or by software.

APPLICATION

MTC-4000 PLC has been specially designed to reduce cycle times and increase the quality of any industrial process. It has a modular architecture and designed for decentralized I/O remotes.

The configuration of all peripherals that make up the system is done easily and securely via communication bus.

MTC-4000 PLC has been designed specifically to command equipments like UPS, motor controls, wind power and solar equipments, handling machinery and parts manufacturing.



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TECHNICAL SPECIFICATIONS

3. 0
32 bits floating point capable 3200MHz
200MHzEurope size card
 Updatable Firmware
Operation status switch: RUN, STOP, RESET
 General purpose RS422 port
Two Ethernet port with PC 100/10 RJ45. TCP/IP Protocol.
CPU operation status indicator through led array. The addressing with integral switches are by as forward.
 IP addressing with internal switches or by software. Processing timings
Bit operations
• Word operations
Integer arithmetics
Floating point arithmetics
Memory
■ Internal Flash14MB
■ RAM DDR4MB
Magnetoresistive memory NVRAM
Retention area
Timers / Counters
Ilimited, each timer or counter is abstracted by program
 Minimum Timing
Programable retention
Real Time Clock (RTC)
Interrupts
3 event handled interrupts / 2 BUS interrupt
Ciclic: Period set in miliseconds
Software event: any global variable
• Precision clocks
10ms, 5ms, 2ms, 1ms
750μs, 500μs, 125μs • External BUS event
- External BO3 event
I/O Remotes
Digital Channels: without preestablished limit
Analog Channels: without preestablished limit
■ BUS addressing up to 12 cards(16KBx12)
Racks
 Ultrarapid Medium size combined bus (2+5) MTC-4009
■ Ultrarapid Large size combined bus (2+12) MTC-4010
Other peripherals
Motor controller
Interrupts and fast counter card