



Figure similar

SIMATIC S7, MODBUS Master V3.1 single license for 1 installation R-SW, without SW and without documentation, HW dongle, Class A, 3 languages (de, de, fr, en fr), executable in STEP 7 V4.02 or higher, reference hardware: CP 341 and CP 441-2

General information
Product function
Protection function
Engineering with
Integrated drive control
Operating mode
Operator control and monitoring
Process images
User administration
Alarms
Recipes/user archives
Display
Line display
Resolution (pixels)
Control elements
Input device
Keyboard fonts
Touch operation
Connection type
Special operator controls
Frame size/design
Ergonomics
Supply voltage
Line frequency
Mains filter
Mains buffering
Load voltage L+
Digital inputs
Load voltage 1L+
Load voltage 2L+
Load voltage L1
Auxiliary voltage 1L+, load voltage 2L+
Input voltage
Input voltage acc. to VDE
Input voltage acc. to UL
Line frequency

Output current
horizontal installation
vertical installation
Encoder supply
Output current
5 V encoder supply
24 V encoder supply
Additional 24 V encoder supply
Memory
Work memory
Working memory for additional functions
Battery
Design
CPU-blocks
DB
FB
FC
Counters, timers and their retentivity
S7 counter
IEC counter
S7 times
Data areas and their retentivity
Flag
Address area
I/O address area
of which distributed
per integrated IO subsystem
Process image
Subprocess images
Digital channels
Analog channels
Addressing volume
Hardware configuration
Formation of potential groups
Module exchange
Interface modules
Number of DP masters
Number of IO Controllers
Number of operable FMs and CPs (recommended)
Expansion modules
Rack
Submodules
Selection of BaseUnit for connection variants
PtP CM
Time of day
Clock
Operating hours counter
Time switching clocks
Digital inputs
Number of simultaneously controllable inputs
all mounting positions
horizontal installation
Digital input functions, parameterizable
Input voltage
Input current
for 10 k switched contact
Internal preparation time

Input delay (for rated value of input voltage)
for standard inputs
for interrupt inputs
Encoder connection
Connection method
Digital outputs
Digital output functions, parameterizable
Control supply voltage
Switching capacity of the outputs
Load resistance range
Trend key points E
Output voltage
Output current
Output delay with resistive load
Parallel switching of two outputs
Switching frequency
Total current of the outputs
horizontal installation
Total current of the outputs (per group)
all mounting positions
horizontal installation
vertical installation
Total current of the outputs (per module)
all mounting positions
horizontal installation
Pulse output (passive)
Frequency output
Relay outputs
Integrated high-speed cams
Analog inputs
Input ranges
Measuring range
Input ranges (rated values), voltages
Input ranges (rated values), currents
Input ranges (rated values), thermocouples
Input ranges (rated values), resistance thermometer
Input ranges (rated values), resistors
Input ranges (rated values), strain gauges (full bridges)
Thermocouple (TC)
Characteristic linearization
Analog outputs
Output ranges, voltage
Output ranges, current
Connection of actuators
Load impedance (in rated range of output)
Analog value generation for the inputs
Integration and conversion time/resolution per channel
Analog value generation for the outputs
Integration and conversion time/resolution per channel
Encoder
Connection of signal encoders
Connectable encoders
Incremental encoder
Encoder signals, incremental encoder (symmetrical)
Encoder signals, incremental encoder (asymmetrical)
Encoder signals, absolute encoder (SSI)
Encoder signals, IEPE

Drive axis
EC motor
Errors/accuracies
Operational error limit in overall temperature range
Basic error limit (operational limit at 25 °C)
Power electronics
Control of heating elements
Load connection type
Setpoint input
Heating power
Interfaces
Video interfaces
Touch interfaces
MPI
PROFIBUS DP
PROFIBUS PA
Supports protocol for PROFINET IO
PROFINET functions
Industrial Ethernet
Point-to-point connection
Integrated protocol driver
Telegram length, max.
Transmission rate, 20 mA (TTY)
Transmission rate, RS 422/485
Transmission speed, RS 232
Signals
ET-Connection
EtherNet/IP
AS-Interface
WLAN
1. Interface
Interface types
Protocols
MPI
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
Open IE communication
CAN
BACnet
2. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services

PROFINET CBA
3. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
PROFINET IO Device
Services
PROFINET CBA
4. Interface
Interface types
Protocols
PROFIBUS DP master
PROFINET IO Controller
Interface types
RJ 45 (Ethernet)
RS 232
RS 485
RS 422
USB port
Protocols
Protocols (USB)
Protocols (Ethernet)
WEB characteristics
Protocols (terminal link)
Number of connections
PROFINET IO Device
Redundancy mode
SIMATIC communication
EtherNet/IP
Services
Updating times
Redundancy mode
Open IE communication
Web server
PROFIBUS DP
PROFdrive
DALI
Integrated protocols
Freeport
3964 (R)
OPC UA
Communication functions
Global data communication
S7 basic communication
S7 communication
LOGO! communication
S5 compatible communication
Standard communication (FMS)
PROFINET CBA (at set setpoint communication load)
Remote interconnections with acyclic transmission
Remote interconnections with cyclic transmission
iPAR server
Number of connections
Test commissioning functions

Status/control
Forcing
Diagnostic buffer
Interrupts/diagnostics/status information
Alarms
Integrated Functions
Monitoring functions
Safety monitoring functions
Counting functions
Load cell
Position detection
Control technology
Step-by-step controllers
Pulse generator
Measuring functions
Operating mode for measured value acquisition
Measuring range
Accuracy
Measuring inputs for voltage
Measuring inputs for current
Measuring inputs for current (Rog. or I/U converter)
Error limits
Counter
Counting mode
External gate counters
Counter input 5 V
Counter input 24 V
Drive interface
Signal Input
Potential separation
Potential separation digital inputs
Potential separation digital outputs
Potential separation analog inputs
Potential separation analog outputs
Potential separation channels
Potential separation valve outputs
Potential separation counter
Potential separation controller
EMC
Interference immunity against discharge of static electricity
Interference immunity against high-frequency electromagnetic fields
Interference immunity to cable-borne interference
Interference immunity against voltage surge
Interference immunity against conducted variable disturbance induced by high-frequency fields
Interference immunity to magnetic fields
Emission of radio interference acc. to EN 55 011
Emission of radio interference acc. to EN 55 022
Standards, approvals, certificates
developed in accordance with IEC 61131
Yes
Highest safety class achievable in safety mode
Highest safety class achievable for safety-related tripping of standard modules
Highest safety class achievable for deactivated dark test
Use in hazardous areas
Ambient conditions
Free fall
Ambient temperature during operation
Operation (vertical installation)

Operation (max. tilt angle)
Ambient temperature during storage/transportation
Air pressure acc. to IEC 60068-2-13
Altitude during operation relating to sea level
Relative humidity
Vibrations
Shock testing
Resistance
Coolants and lubricants
Use in stationary industrial systems
Use on land craft, rail vehicles and special-purpose vehicles
Use on ships/at sea
Fire resistance
Hardware requirement
Graphic
Drives
Operating systems
pre-installed operating system
Runs under operating system
<ul style="list-style-type: none"> • Windows 9x • Windows ME • Windows NT 4.0 • Windows 2000 • Windows XP • Windows 7
No
No
No
No
Yes
Yes
Software
Software required
Target system
Preinstalled
Software functions
Multi-user system
Block
Authorization/licenses
<ul style="list-style-type: none"> • Single license (EL)
Yes
Configuration
Configuration
Script languages (Runtime)
Programming
Programming language
Configuration examples
Software libraries
Know-how protection
Access protection
Languages
Online languages
Functionality under WinCC (TIA Portal)
Multiproject
Message system
Recipe management
Variables
Images
Image objects
Complex image objects
Attributes for dynamic objects
Lists
Archiving
Filters

Security
Data carrier support
Logging through printer
Character sets
Transfer (upload/download)
Process coupling
Functions
Functionality under WinCC Unified
Parameter set management (recipes)
Image objects
Documentation
Languages
<ul style="list-style-type: none"> • German • English • French
Yes
Yes
Yes
Connection method
ET-Connection
Terminals
Connection I/O signals
Conductor cross-section in mm ²
Conductor cross-section acc. to AWG
Other
Data for selecting a voltage transformer

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