



VIPA System 200V - The modular control system



The VIPA System 200V is a highly compact and modular automation system for centralised and decentralised applications. It is scalable due to various modules and so ideal for use in small and medium-sized applications.



Modular control system programmable with STEP[®]7 from Siemens

Features VIPA System 200V:

- Programmable with Step[®]7 from Siemens
- Integrated work memory - operation without additional memory card possible!
- Integrated ROM memory for continuous saving of program and data
- Integrated accumulator-backed RAM memory
- Supporting standard MMC cards for saving of program and data
- MPI-Interface on board
- Application in centralised and decentralised areas possible
- Modular expansion possible
- MMC Slot
- Real-time clock
- Centralised application with up to 32 modules directly at the CPU possible
- Compact design
- Maintenance-free cage clamps
- Front connector included
- Set-up for 35mm DIN rails
- 24 months warranty
- UL-standard certification



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CPUs FOR STEP[®] 5 FROM SIEMENS



Fig.: 242-2BP01

Models:

- 241-1BA01 CPU 241 with 8kB memory, AS511
- 241-2BP01 CPU 241DP with 8kB memory, AS511, Profibus DP-Slave
- 241-2BT01 CPU 241NET with 8kB memory, AS511, Ethernet TCP/IP and S5-Communication
- 242-1BA01 CPU 242 with 32kByte memory, AS511
- 242-2BP01 CPU 242DP with 32kByte memory, AS511, Profibus DP-Slave
- 242-2BT01 CPU 242NET with 32kByte memory, AS511, Ethernet TCP/IP and S5-Communication
- 243-1BA01 CPU 243 with 52kByte memory, AS511
- 243-2BP01 CPU 243DP with 52kByte memory, AS511, Profibus DP-Slave
- 243-2BT01 CPU 243NET with 52kByte memory, AS511, Ethernet TCP/IP and S5-Communication
- 244-1BA01 CPU 244 with 104kByte memory, AS511
- 244-2BP01 CPU 244DP with 104kByte memory, AS511, Profibus DP-Slave
- 244-2BT01 CPU 244NET with 104kByte memory, AS511, Ethernet TCP/IP and S5-Communication

CPUs FOR STEP[®] 7 FROM SIEMENS



Fig.: 215-2BP02

Models:

- 214-1BA02 CPU 214 with 48/80kB work/load memory
- 214-1BC02 CPU 214C with 32/40kB work/load memory
- 214-2BM02 CPU 214DPM with 48/80kB work/load memory, Profibus-DP-Master
- 214-2BP02 CPU 214DP with 48/80kB work/load memory, Profibus DP-Slave
- 214-2BS02 CPU 214SER with 48/80kB work/load memory, 2x RS232C-Interface, ASCII, STX/ETX, 3964(R) with RK512
- 214-2BS12 CPU 214SER with 48/80kB work/load memory, RS232-Interface, ASCII, STX/ETX, 3964(R)
- 214-2BS32 CPU 214SER 48/80kB work/load memory, RS485-Interface, ASCII, STX/ETX, 3964(R), Modbus
- 214-2BT10 CPU 214NET 48/80 A/L-kB memory, integrated Ethernet-CP 243, TCP/IP with S7-Header, parametrizable with NetPro from Siemens
- 214-2CM02 CPU 214CAN with 48/80kB work/load memory, CANopen-Master
- 215-1BA02 CPU 215 with 96/144kB work/load memory
- 215-2BM02 CPU 215DPM with 96/144kB work/load memory, Profibus-DP-Master
- 215-2BP02 CPU 215DP with 96/144kB work/load memory, Profibus DP-Slave
- 215-2BS02 CPU 215SER with 96/144kB work/load memory, 2x RS232C-Interface, ASCII, STX/ETX, 3964(R), RK512
- 215-2BS12 CPU 215SER with 96/144kB work/load memory, RS232-Interface, ASCII, STX/ETX, 3964(R)
- 215-2BS32 CPU 215SER with 96/144kB work/load memory, RS485-Interface, ASCII, STX/ETX, 3964(R), Modbus
- 215-2BT10 CPU 215NET with 96/144kB work/load memory, integrated Ethernet-CP 243, TCP/IP with S7-Header, parametrizable with NetPro from Siemens
- 215-2CM02 CPU 215CAN with 96/144kB work/load memory, CANopen-Master
- 216-1BA02 CPU 216 with 128/192kB work/load memory
- 216-2BM02 CPU 216DPM with 128/192kB work/load memory, Profibus-DP-Master
- 216-2BP02 CPU 216DP with 128/192kB work/load memory, Profibus DP-Slave
- 216-2BS02 CPU 216SER with 128/192kB work/load memory, 2x RS232C-Interface, ASCII, STX/ETX, 3964(R), RK512
- 216-2BS12 CPU 216SER with 128k/192kB work/load memory, RS232-Interface, ASCII, STX/ETX, 3964(R)
- 216-2BS32 CPU 216SER with 128k/192kB work/load memory, RS485-Interface, ASCII, STX/ETX, 3964(R), Modbus
- 216-2BT10 CPU 216NET with 128k/192kB work/load memory, integrated Ethernet-CP 243, TCP/IP with S7-Header, parametrizable with NetPro from Siemens
- 216-2CM02 CPU 216CAN with 128/192kB work/load memory, CANopen-Master



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CLAMPS MODULES



Fig.: 201-1AA10

Models:

- 201-1AA00 CM 201 double clamps module with 2x11 clamps, grey/grey
- 201-1AA10 CM 201 double clamps module with 2x11 clamps, green-yellow/grey
- 201-1AA20 CM 201 double clamps module with 2x11 clamps, red-blue
- 201-1AA40 CM 201 4-tier clamps module with 2x5 clamps, grey/grey and 2x6pole red/blue

POWER SUPPLY



Fig.: 207-2BA20

Models:

- 207-1BA00 PS 207 power supply, AC 100/230V, DC 24V, 2A, 48W
- 207-2BA20 PS 207 power supply, AC 100/230V, DC 24V, 2A, 48W with 2x11 clamps red/blue

FIELD BUS MASTER MODULES



Fig.: 208-1CA00

Models:

- 208-1CA00 IM 208CAN, CANopen-Master
- 208-1DP01 IM 208DP, Profibus-DP-Master, RS485
- 208-1DP11 IM 208DPO, Profibus-DP-Master, LWL-Interface (POF, HCS), DP-V1

DIGITAL INPUT MODULES



Fig.: 221-2BL10

Models:

- 221-1BF00 SM 221 with DI 8xDC 24V
- 221-1BF10 SM 221 with DI 8xDC 24V, 0,2ms
- 221-1BF20 SM 221 with DI 8xDC 24V, alarm
- 221-1BF30 SM 221 with DI 8xDC 24V, ECO
- 221-1BF50 SM 221 with DI 8xDC 24V, NPN
- 221-1BH00 SM 221 with DI 16xDC 24V for DEA-UB4x
- 221-1BH10 SM 221 with DI 16xDC 24V,
- 221-1BH20 SM 221 with DI 16xDC 24V, thereof 1 counter AB, 100kHz, 32 Bit
- 221-1BH30 SM 221 with DI 16xDC 24V, ECO
- 221-1BH50 SM 221 with DI 16xDC 24V, NPN
- 221-1FD00 SM 221 with DI 4xAC/DC 90...230V, potential separated per channel
- 221-1FF20 SM 221 with DI 8xAC/DC 60...230V
- 221-1FF30 SM 221 with DI 8xAC/DC 24...48V
- 221-1FF40 SM 221 with DI 8xAC 230V, 20mA input current, hysteresis
- 221-1FF50 SM 221 with DI 8xAC/DC 180...265V
- 221-2BL10 SM 221 with DI 32xDC 24V
- KS221-1BH00 SM 221Set, 1xSM 221-1BH00, DI 16xDC 24V, 1xDEA-KB91A (1m), 1xDEA UB48D
- KSD221-1BH00 SM 221Set, 1xSM 221-1BH00, DO 16xDC 24V, 1xDEA-KB91A(1m), 1xDEA UB48D (3-wire)

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DIGITAL OUTPUT MODULES



Fig.: 222-1BF00

Models:

222-1BF00 SM 222 with DO 8xDC 24V, 1A
 222-1BF10 SM 222 with DO 8xDC 24V, 2A
 222-1BF20 SM 222 with DO 8xDC 24V, 2A, 4 groups of 2 outputs
 222-1BF30 SM 222 with DO 8xDC 24V, 0,5A, ECO
 222-1BH00 SM 222 with DO 16xDC 24V, 0,5A, for DEA-UB4x
 222-1BH10 SM 222 with DO 16xDC 24V, 1A
 222-1BH20 SM 222 with DO 16xDC 24V, 2A, sum current up to 10A
 222-1BH30 SM 222 with DO 16xDC 24V, 0,5A, ECO
 222-1BH50 SM 222 with DO 16xDC 24V, 0,5A, NPN
 222-1FD10 SM 222 with DO 4xDC 400V/AC 230V, 0,5A, Solid State Relais, potential separated per channel
 222-1FF00 SM 222 with DO 8xDC 400V/AC 230V, 0,5A, Solid State Relais COM
 222-1HD10 SM 222 with DO 4xDC 30V/AC 230V, 5A, Relais, potential separated per channel
 222-1HD20 SM 222 with DO 4xDC 30V/AC 230V, 16A, Relais, bistable potential separated per channel
 222-1HF00 SM 222 with DO 8xDC 30V/AC 230V, 5A, Relais COM
 222-2BL10 SM 222 with DO 32xDC 24V, 1A, 2 groups of 16 DO
 KS222-1BH00 SM 222Set, 1xSM 222-1BH00, DI 16xDC 24V, 1A, 1xDEA-KB91A(1m), 1xDEA UB48
 KSD222-1BH00 SM 222Set, 1xSM 222-1BH00, DO 16xDC 24V, 1A, 1xDEA-KB91A(1m), 1xDEA UB48 (3-wire)

DIGITAL IN-/OUTPUT MODULES



Fig.: 223-1BF00

Models:

223-1BF00 SM 223 with DIO 8xDC 24V, 1A
 223-2BL10 SM 223 with DI 16xDC 24V, DO 16xDC 24V, 1A

ANALOG INPUT MODULES



Fig.: 231-1BD53

Models:

231-1BD30 SM 231 with AI 4x12Bit, voltage, ECO
 231-1BD40 SM 231 with AI 4x12Bit, current, ECO
 231-1BD53 SM 231 with AI 4x16Bit, Multiinput, U/I, Thermo, PT/Ni 100, PT/Ni 1000
 231-1BD60 SM 231 with AI 4x12Bit, 0/4...20mA, potential separated per channel
 231-1BD70 SM 231 with AI 4x12Bit, 0...10V, potential separated per channel
 231-1BF00 SM 231 with AI 8x16Bit (2-wire), 4x16Bit (4-wire), 0...60 mV, Thermo, PT100
 231-1FD00 SM 231 with AI 4x16Bit, U/I, 1ms total

ANALOG OUTPUT MODULES



Fig.: 232-1BD51

Models:

232-1BD30 SM 232 with AO4x12Bit, voltage, ECO
 232-1BD40 SM 232 with AO 4x12Bit, current, ECO
 232-1BD51 SM 232 with AO4x12Bit, Multioutput, U/I



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ANALOG IN-/OUTPUT MODULES



Fig.: 234-1BD50

Models:

234-1BD50 SM 234 with AI 2x12Bit, AO 2x12Bit, U/I
234-1BD60 SM 234 with AI 3xU/I, AI 1xPT100, AO 2x12Bit, U/I

COMBINATION MODULES



Fig.: 238-2BCoo

Models:

238-2BCoo SM 238C DI 16xDC 24V, thereof DIO 4xDC 24V, thereof 6(3) counter (AB), 30kHz, 32Bit, AI 3xU/I and 1xPT100x12Bit, AO 2x12Bit U/I COM, only in connection with 21x CPUs

COMMUNICATION PROCESSORS



Fig.: 240-1BAoo

Models:

240-1BA20 CP 240 with RS232C, ASCII, STEX/ETX, 3964R, Modbus (ASCII, RTU), Master/Slave, PtP
240-1CA20 CP 240 with RS485, ASCII, STEX/ETX, 3964R, Modbus (ASCII, RTU), Master/Slave, PtP
240-1EA20 CP 204 with EnOcean
240-1FA20 CP 204 with M-Bus

240-1DA10 CP 240 with 10/100MBit, 4-tier Mini-Switch

FUNCTION MODULES



Fig.: 253-1BAoo

Models:

250-1BAoo FM 250 with DO 2xDC 24V, 2(4) connector, 32(16)Bit, 1MHz, 1A
250-1BSoo FM 250S with DO 2xDC 24V, 1xSSI, RS422, 12/24 Bit, 1A
253-1BAoo FM 253 with DI 3xDC 24V, DO 2xDC 24V, RS422 potential separated, stepper motor, 1A
254-1BAoo FM 254 with DI 3xDC 24V, DO 2xDC 24V, RS422 potential separated, servomotor, 1A

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FIELD BUS SLAVE MODULES



Fig.: 250-1BS00

Models:

253-1CA01	IM 253CAN Tx/Rx-PDO 10/10
253-1CA30	IM 253CAN, Tx/Rx-PDO 10/10, ECO
253-1DN00	IM 253DN with DeviceNet-Slave
253-1DP00	IM 253DP with Profibus DP-Slave, RS458
253-1DP01	IM 253 with RS485, DP-V1, configuration via GSD-data from VIPA, up to 32 modules
253-1DP10	IM 253DPO with LWL-Interface (POF, HCS)
253-1DP11	IM 253DPO with HP-LWL-Interface (POF, HCS), DP-V1, configuration via GSD-data from VIPA, up to 32 modules
253-1DP30	IM 253DP, RS485, DP-VO, DP-V1, configuration via GSD-data from VIPA, ECO
253-1IB00	IM 253IBS with Interbus-Slave, up to 16 I/O Module
253-1NE00	IM 253NET with Ethernet-Slave, 10/100MBaud, Modbus TCP
253-2DP50	IM 253DPR with Profibus-Slave, RS485, 2 channel redundant

PC-CPU



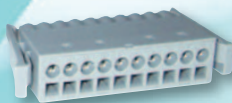
Fig.: 288-2BL10

Models:

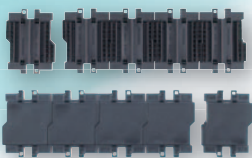
288-2BL10	PC 288CPU with PC-LAN Extended, STPC (486), 66 MHz, DVI, RS 232C, 10/100Mbit, up to 32 I/O-Module, Ethernet TCP/IP
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ACCESSORIES FOR SYSTEM 200V

35mm DIN rail



Front connector
• 10 pole



Bus connector
• 1tier, 2tier, 4tier, 8tier

Accessories for System 200V:

260-1AA00	IM 260, basic module for up to 3 expansion modules
260-1XY05	Connection cable 0,5m
260-1XY10	Connection cable 1m
260-1XY15	Connection cable 1,5m
260-1XY20	Connection cable 2m
260-1XY25	Connection cable 2,5m
261-1CA00	IM 261, expansion module for the 2nd up to 4th line
290-0AA10	Bus connector 1-tier, BC290
290-0AA20	Bus connector 2-tier, BC290
290-0AA40	Bus connector 4-tier, BC290
290-0AA80	Bus connector 8-tier, BC290
290-1AF 30	DIN rail 35mm, length 530mm
292-1AF00	Front connector, 10pole with cage clamps
292-1AH00	Front connector, 18pole with cage clamps
292-1XY00	Labelling cards with cover foil, 10 pieces
292-1XY10	Labelling cards 10 sheets, 8 cards each
292-1XY20	Clip-on cards, 10 sheets, 108 cards each (small)
HB103D	Manual CPU21x, German, Rev. 04/30
HB103E	Manual CPU21x, English, Rev. 04/30
HB97D	Manual System 200V, German, Rev. 04/39
HB97E	Manual System 200V, English, Rev. 04/39
HB97E	Manual System 200V, Spanish, Rev. 01/30
HB99D	Manual CPU24x, German, Rev. 00/40
HB99E	Manual CPU24x, English, Rev. 00/40
UPI-FOX2	Diagnostic adapter with Software for BG 4xD/C CP240