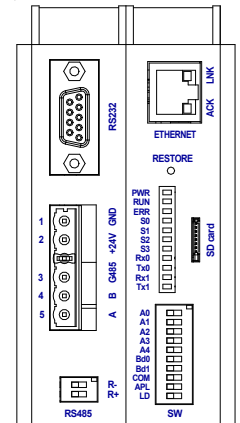


AD-CPUW2

Central unit with webserver

- Separated communication and procedural CPU
- Backed-up RAM 1 MB
- “Single FLASH” 2 MB or “dual FLASH” 1 MB
- Slot for micro SD card
- NOS loading possibility through Ethernet interface
- Integrated web server
- Ethernet 10/100 Mbps, RS232, RS485 (galvanic isolation)
- Mounting on DIN rail 35 mm
- Sandwich connection of up to 16 I/O modules
- NOS operating system
- Programming and debugging – DetStudio



TECHNICAL DATA

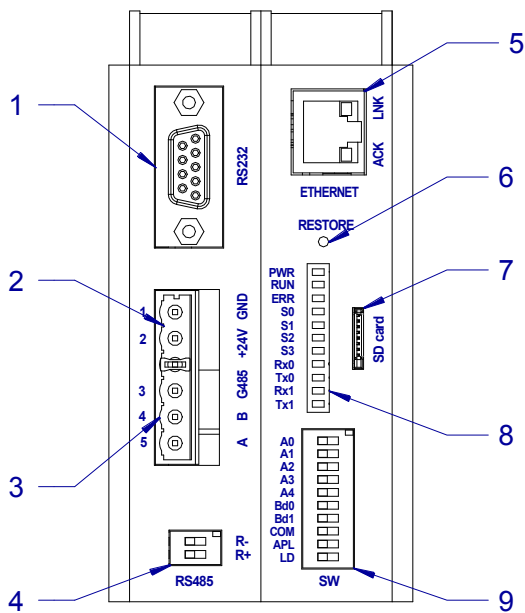
Procedural CPU	ST10F269
Memory FLASH	2 MB + 256 KB
Memory RAM	1 MB
Memory EEPROM	2 KB
Communication CPU	STM32F207
Slot for memory card	micro SD
Communication	
Ethernet	10/100 Mbps, RJ45, according to IEEE802.3
RS232	RxD, TxD, RTS, CTS, DTR, DSR, Without GI
RS485	With galvanic isolation *)
Power supply	19.2 V DC to 28.8 V DC
Reference voltage	Internal 5.000 V DC \pm 1 mV
Consumption (without peripheral modules)	Max. 150 mA at 24 V DC
Maximum consumption from internal +5 V DC	1.6 A DC
Maximum consumption from internal +24 V DC	2 A DC
Others	
Central unit position	First on left
Maximum number of I/O modules	16
Connection	Connectors WAGO of series 231
Ingress protection rate	IP20
AD-CPUW2 working temperature	0 °C to 70 °C
AD-CPUW2/I working temperature	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	DIN rail 35 mm rail mounting
Weight	280 g
Dimensions (w × h × d)	(54 × 104 × 96) mm

*) Insulation strength 500 V AC/1 minute, galvanic isolation must not be used for safe and unsafe parts separation.

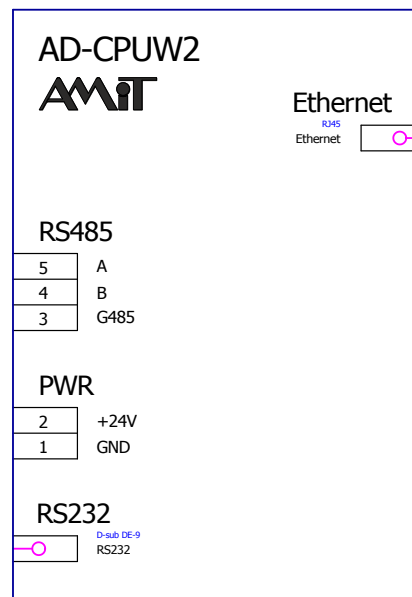
ORDERING INFORMATION

AD-CPUW2	Central unit, connectors WAGO
AD-CPUW2/I	Central unit -40 °C to 70 °C, connectors WAGO
SDM 2GB/I2	Micro SD card, 2 GB, -25 °C to 70 °C

LOCATION OF CONNECTORS AND CONFIGURATION CONTROLS



RECOMMENDED DRAWING SYMBOL



Legend

Number	Description
1	RS232
2	Power supply +24 V ss.
3	RS485
4	DIP – termination of RS485
5	Ethernet with status LEDs
6	Button, default settings
7	Micro SD slot
8	LED status bar
9	SW configuration

Note: Description of SW switch for operating system NOS is presented in manual for DetStudio.

RS485 SETTING

DIP	Label	Description
1	R-	Wire B idle state + termination *)
2	R+	Wire A idle state + termination *)

*) The switches must be always connected or disconnected simultaneously.

RS232 WIRING (D-sub DE-9)

PIN	Signal	Type
1	–	–
2	TxD	Output
3	RxD	Input
4	DSR	Input
5	GND	–

WIRING OF RS485 AND POWER SUPPLY (WAGO)

PIN	Signal	Type
6	DTR	Output
7	CTS	Input
8	RTS	Output
9	RI	Input

PIN	Signal	Description
1	GND	Power supply, ground
2	+24V	Power supply +24 V DC
3	G485	RS485 shielding
4	B	RS485 wire B
5	A	RS485 wire A

Note: Item **Signal** corresponds to the signals on the control system AD-CPUW2. It is connected to PC through crossover cable.
Item **Type** corresponds with signal type on the control system AD-CPUW2.

Other information can be found in operational manual ([ad-cpuw2_g_en_xxx.pdf](#)). Documentation and examples can be downloaded from www.amitotion.com.