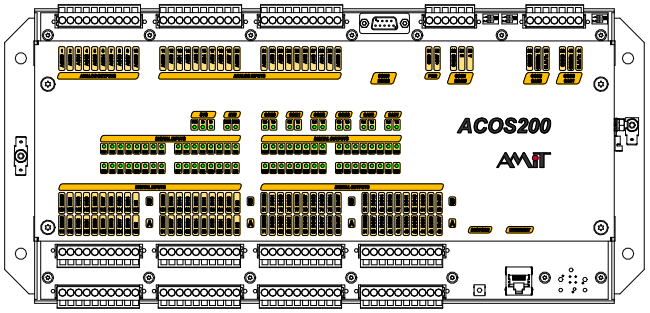
ACOS200

Compact control system

- **32× digital input 24 V GI**
- **32× digital output 24 V / 0.3 A GI**
- **16× analogue input U / I / Ni**
- **8× analogue output U**
- **RS232, RS485, Ethernet interface**
- **2× optional RS232 / RS485 / CAN**
- **Integrated web server**
- **Micro SD card slot**
- **Power supply 24 V DC**



TECHNICAL DATA

Processor, FLASH / EEPROM	STM32F427, 2 MB + 4 MB / 32 KB
Backed-up RAM memory	1 MB
Micro SD card slot	Accessible after case cover removal
RTC, accuracy (25 °C)	CPU, ±20 ppm (max. ±1.73 s/day)
RAM + RTC backup	CR2477 lithium battery removable module
Battery lifetime	5 years in normal environment
Inputs	32× DI + 16× AI
Digital inputs	24 V DC
Galvanic isolation of digital inputs	Yes [1])
Analogue inputs	(0 to 10) V DC / (0 to 20) mA DC / Ni1000 / Pt1000
Outputs	32× DO + 8× AO
Digital transistor outputs	24 V / 0.3 A DC
Galvanic isolation of digital outputs	Yes [1])
Analogue outputs	(0 to 10) V DC, maximum load 10 mA
Communication	
RS232	1×, connector D-sub DE-9
Galvanic isolation	Yes [1])
RS485	1×, connector WAGO 231
Galvanic isolation	Yes [1])
Ethernet	IEEE802.3 (connector RJ45)
Optional interfaces on the module	RS485 (with module CM-RS485), GI CAN (with module CM-CAN), GI RS232 (with module CM-RS232) – only Rx, Tx
Power supply	14.4 V DC to 28.8 V DC
Power consumption	Max. 220 mA at 24 V DC
Overvoltage protection / reverse polarity protection	Electronic
Other	
Signal connection	Cage clamps WAGO 231
Ingress protection rate	IP20, located in the metal cover
Operating temperature range	-40 °C to 70 °C
Maximum ambient humidity	< 95 % non-condensing
Weight	2.04 kg
Dimensions (w × h × d)	(395 × 187 × 44) mm
Programming	DetStudio / EsiDet

[1]) Isolation strength 500 V AC / 1 min., galvanic isolation must not be used for separation of dangerous voltages.
Analogue inputs and outputs are not galvanically isolated.

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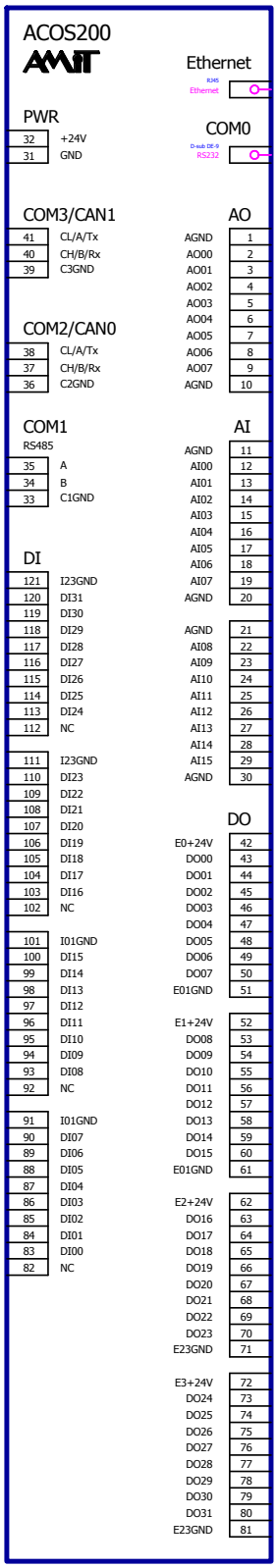
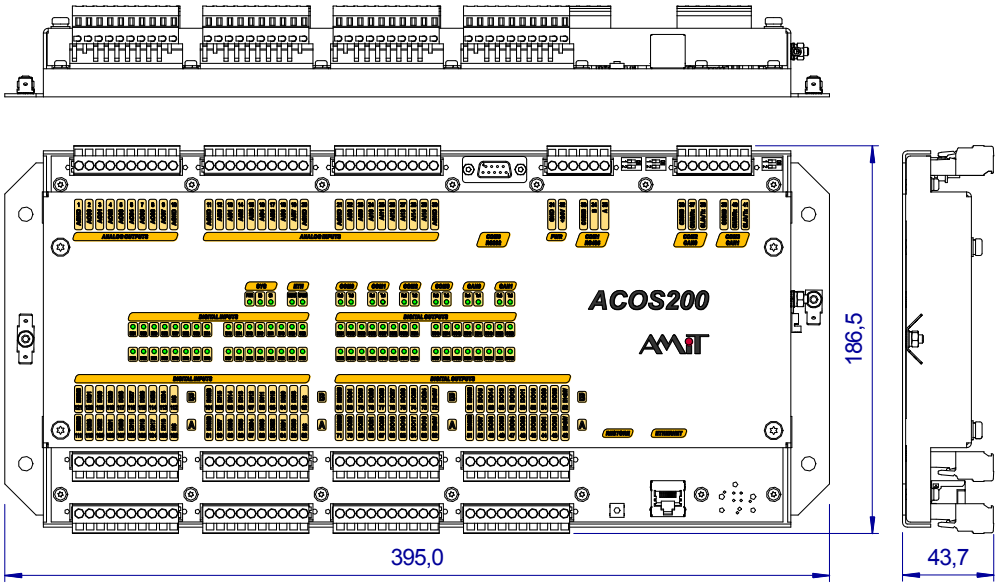
ORDERING INFORMATION

ACOS200	Control system, connectors WAGO 231
CM-RS485	Communication module for RS485 with galvanic isolation
CM-RS232	Communication module for RS232 without galvanic isolation, only Rx and Tx
CM-CAN	Communication module for CAN with galvanic isolation

DRAWING SYMBOL



MECHANICAL DIMENSIONS



Terminal	Signal	Description
1, 10, 11, 20, 21, 30	AGND	Analogue ground
2 to 9	AO00 to AO07	Analogue output 0 to 7
12 to 19	AI00 to AI07	Analogue input 0 to 7
22 to 29	AI08 to AI15	Analogue input 8 to 15
31	GND	Power supply ground
32	+24V	Power supply, +24 V DC
33	C1GND	Galvanically isolated RS485 interface, ground
34	B	Galvanically isolated RS485 interface, signal B
35	A	Galvanically isolated RS485 interface, signal A
36	C2GND	Optional interface COM2/CAN0, ground
37	CH/B/Rx	Signal CH/B/Rx of the optional interface
38	CL/A/Tx	Signal CL/A/Tx of the optional interface
39	C3GND	Optional interface COM3/CAN1, ground
40	CH/B/Rx	Signal CH/B/Rx of the optional interface
41	CL/A/Tx	Signal CL/A/Tx of the optional interface
42	E0+24V	Power supply to digital outputs DO00 to DO07
43 to 50	DO00 to DO07	Digital output 0 to 7
51, 61	E01GND	Common ground for outputs DO00 to DO15
52	E1+24V	Power supply to digital outputs DO08 to DO15
53 to 60	DO08 to DO15	Digital output 8 to 15
62	E2+24V	Power supply to digital outputs DO16 to DO23
63 to 70	DO16 to DO23	Digital output 16 to 23
71, 81	E23GND	Common ground for outputs DO16 to DO31
72	E3+24V	Power supply to digital outputs DO24 to DO31
73 to 80	DO24 to DO31	Digital output 24 to 31
82, 92, 102, 112	NC	Not connected
83 to 90	DI00 to DI07	Digital input 0 to 7
91, 101	I01GND	Common ground for inputs DI00 to DI15
93 to 100	DI08 to DI15	Digital input 8 to 15
103 to 110	DI16 to DI23	Digital input 16 to 23
111, 121	I23GND	Common ground for inputs DI16 to DI31
113 to 120	DI24 to DI31	Digital input 24 to 31

Data provided in this datasheet are informative only. Binding detailed information can be found in the operational manual (**acos200_g_en_xxx.pdf**). Documentation is available for download at **amitomation.com**.