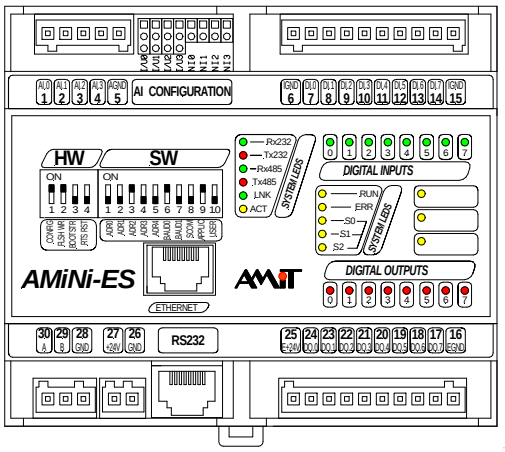
Industrial
Control Systems

# AMiNi-ES

Compact Control System with Ethernet Interface

- **8 × digital output 24 V / 0.3 A DC**
- **8 × digital input 24 V AC/DC**
- **4 × analogue input U / I / Ni1000**
- **RS232, RS485 and Ethernet interface**
- **35 mm DIN rail mounting**




## TECHNICAL DATA

| | |
|---|---|
| CPU | ST10F269 |
| FLASH memory | 256 + 512 KB |
| RAM memory (battery back-up) | 1024 KB |
| RTC (battery back-up) | Yes |
| EEPROM memory | 2 KB |
| Digital inputs<br>Universal AC / DC | 8 × 24 V AC/DC<br>Logical 0 min. –30 V, max. 5 V<br>Logical 1 min. 16 V, max. 30 V |
| Galvanic separation | Yes *) |
| Digital outputs | 8 × 24 V / 0.3 A DC |
| Galvanic separation | Yes *) |
| Outputs protection | Internal protection of BSP452 switch |
| Analogue inputs | 4 × 0 to 10 V / 0 to 5 V / 0 to 20 mA / Ni1000 |
| Analogue inputs protection | Diodes + 10 kOhm resistor |
| Serial communication interface | RS232 (RJ45), according to EIA-561<br>RS485 without galvanic separation (WAGO connectors) |
| Ethernet interface | 10 Mbps, RJ45, according to IEEE802.3 |
| Cover protection rate | IP20 |
| Signal connection | WAGO 734 (3.81 mm) cage clamp connectors |
| Power supply | 24 V AC ±20 % |
| Power consumption (without outputs) | Max. 250 mA at 24 V DC |
| Operating temperature | 0 to 50 °C |
| Max. ambient humidity | < 95 % non-condensing |
| Weight | 180 g |
| Dimensions (w × h × d) | 106 × 95 × 74 mm |
| Back-up battery lifetime | 5 years |
| Programming | DetStudio |

*) Insulation strength 300 V AC / 1 minute, galvanic separation may not be used for safe and unsafe parts separation.

## ORDERING INFORMATION

| | |
|---|---|
| **AMiNi-ES** | Compact control system, full connector set, user's manual, warranty card |
| **KABEL 232RP** | RS232 to PC connecting cable |



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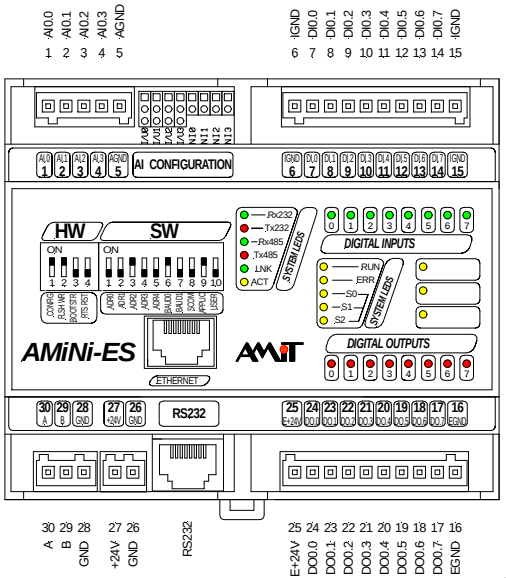
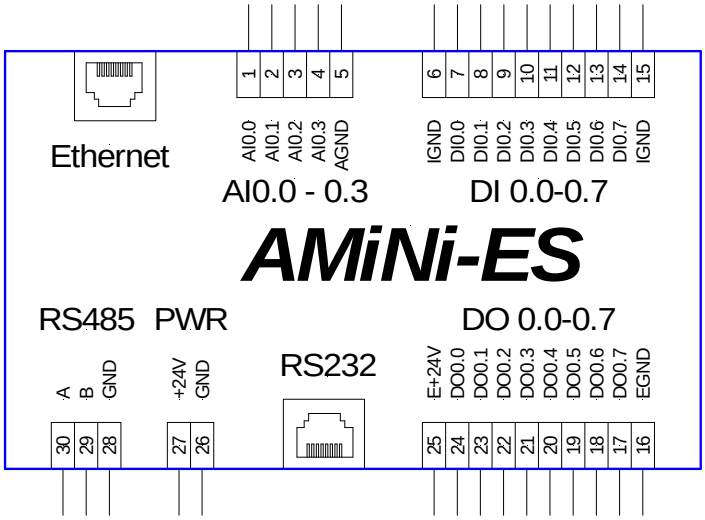
## CONNECTORS FOR PHERIPHERAL MODULES

| | | | |
|---|---|---|---|
| Analogue inputs | **AI** | 4 × 10-bit analogue input without galavanic separation | 1 .. 5 |
| Digital inputs | **DI** | 8 × galvanically separated input | 6 .. 15 |
| Digital outputs | **DO** | 8 × galvanically separated output | 16 .. 25 |
| Power supply | **PWR** | Power supply 24 V DC | 26 .. 27 |
| Communication | **RS485** | | 28 .. 30 |

## TERMINAL LOCATION




## RECOMMENDED DIAGRAM SYMBOL




Note: GND, AGND, RS232-GND and RS485-GND terminals are internally connected

## PHYSICAL DIMENSIONS