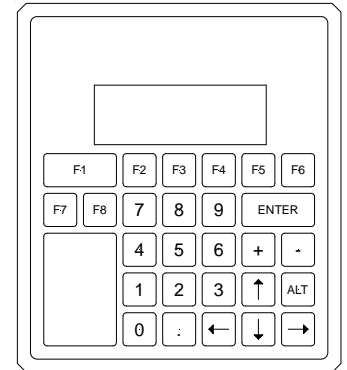


# ART4000A/1M

Compact Control System with Display

- 1024 KB battery back-up RAM, 512 KB FLASH
- 8 × digital output 24 V / 0.5 A
- 8 × digital input 24 V
- 8 × analogue input
- 2 × analogue output 0 to 10 V
- RS232, RS485 with galvanic separation
- LCD display 4 × 20 characters, ASCII and Russian alphabet character set, membrane keyboard with 27 keys



## TECHNICAL DATA

|  |   |
|--|---|
| <b>Display</b>                           | Display and keyboard  |
| Display                                  | Back-lit LCD with 4 × 20 characters                                       |
| Keyboard                                 | Membrane type with 27 keys  |
| <b>Digital inputs</b>                    | 8 × 24 V AC/DC  |
| Galvanic separation of inputs            | Yes *)  |
| <b>Digital outputs</b>                   | 8 × 24 V / 0.5 A DC   |
| Galvanic separation of outputs           | Yes *)  |
| <b>Analogue inputs</b>                   | 8 ×   |
| Type                                     | 0 to 10 V / 0 to 5 V / 0 to 20 mA / Ni1000 / Pt1000 contact<br>24 V AC/DC |
| Galvanic separation of analogue inputs   | No  |
| <b>Voltage analogue outputs</b>          | 2 × 0 to 10 V, (max. 10 mA)   |
| Galvanic separation of analogue outputs  | No  |
| <b>Communication</b>                     |   |
| RS232                                    | 1 × (CANON 9, female)   |
| Galvanic separation of RS232             | No  |
| RS485                                    | 1 × (WAGO231-303)   |
| Galvanic separation of RS485             | Yes *)  |
| <b>Power supply</b>                      | 24 V AC ±20 %   |
| Max. power consumption (without outputs) | Max. 0.25 A at 24 V DC  |
| <b>Others</b>                            |   |
| Signal connection                        | WAGO 231 cage clamp connectors  |
| Protection – front panel / back panel    | IP55 / IP20   |
| Operating temperature                    | 0 to 50 °C  |
| Max. ambient humidity                    | < 95 % non-condensing   |
| Mounting                                 | Designed for switchboard front panel mounting                             |
| Weight                                   | 1 kg  |
| Dimensions (w × h × d)                   | 146 × 166 × 87 mm   |

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

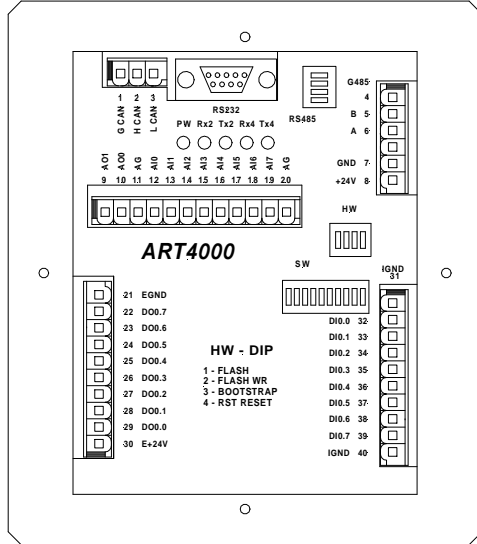
## ORDERING INFORMATION

|                    |  |
|--------------------|--|
| <b>ART4000A/1M</b> | Control system with LCD display and keyboard, user's manual, warranty card, mount-hole cutting template, full WAGO connector set |
| <b>KABEL 232P</b>  | RS232 to PC connecting cable   |

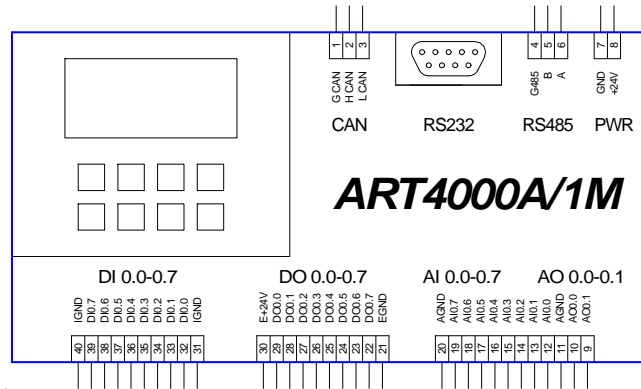
# CONNECTORS FOR PHERIPHERAL MODULES

|                           |  |          |
|---------------------------|--|----------|
| Communication             | RS485 interface  | 4 .. 5   |
| Power supply              | <b>PWR</b> Power supply 24 V DC  | 7 .. 8   |
| Analogue inputs + outputs | <b>AI/AO</b> 8 × 10-bit analogue input without galvanic separation<br>2 × 10-bit analogue output without galvanic separation | 9 .. 20  |
| Digital outputs           | <b>DO</b> 8 × galvanically separated output  | 21 .. 30 |
| Digital inputs            | <b>DI</b> 8 × galvanically separated input   | 31 .. 40 |

## TERMINAL LOCATION



## RECOMMENDED DIAGRAM SYMBOL



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

## PHYSICAL DIMENSIONS

