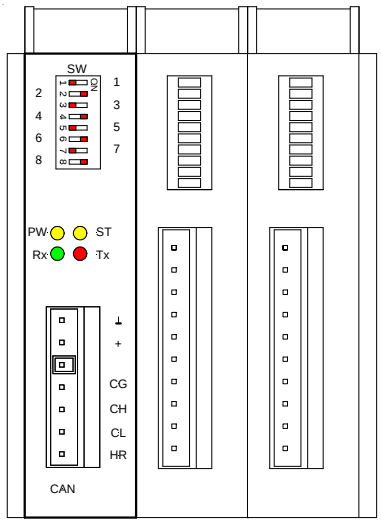
Industrial
Control Systems

# ADC-CAN

Main Unit with CAN Interface

- **CPU for I/O signals extending within the DIOCAN system**
- **Physical and line layer CAN 2.0 B (galvanically separated )**
- **CANopen communication protocol**
- **Transmission rate 20 kbit/s to 1 Mbit/s**
- **Module-Id and transmission rate setting by the DIP switch**
- **Self-stacking connection of selected ADiS system modules**
- **Visual signalling of module and line state**
- **35 mm DIN rail mounting**
- **Programming and debugging in superior system by DetStudio**




## TECHNICAL DATA

| | |
|---|---|
| Physical layer | CAN 2.0 B |
| Galvanic separation | Yes *) |
| Max. number of stations in the network | 32 |
| Line protection | Transil 600 W |
| Max. segment length | 40 m / 1 Mbit<br>1300 m / 50 kbit |
| Communication protocol | CANopen according the CiA 3A/DS 301<br>(Minimum capability device) |
| Module Id | 1, 3, 5, … 63 |
| Firmware | DIOCAN |
| Programming | By DetStudio in superior system |
| LED signalling | Power supply, Tx and Rx line, state |
| Modules connection to the ADiS system | Self-stackingly from the right side (max. 16 modules) |
| Main unit location in the system | First from the left |
| Cover protection rate | IP20 |
| Power supply and CAN line connection | WAGO 231 cage clamp connectors |
| Power supply | 24 V AC ±20 % |
| Power consumption (without modules) | Max. 60 mA at 24 V DC |
| Mounting | 35 mm DIN rail |
| Operating temperature | 0 to 50 °C |
| Max. ambient humidity | < 95 % non-condensing |
| Weight | 140 g |
| Dimensions (w × h × d) | 31 × 104 × 96 mm |
| Programming | By DetStudio in superior system |

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

## ORDERING INFORMATION

| | |
|---|---|
| **ADC-CAN** | Main unit with WAGO 231-302 connector for power supplying and WAGO 231-304 connector for CAN communication line, data sheet, warranty card |



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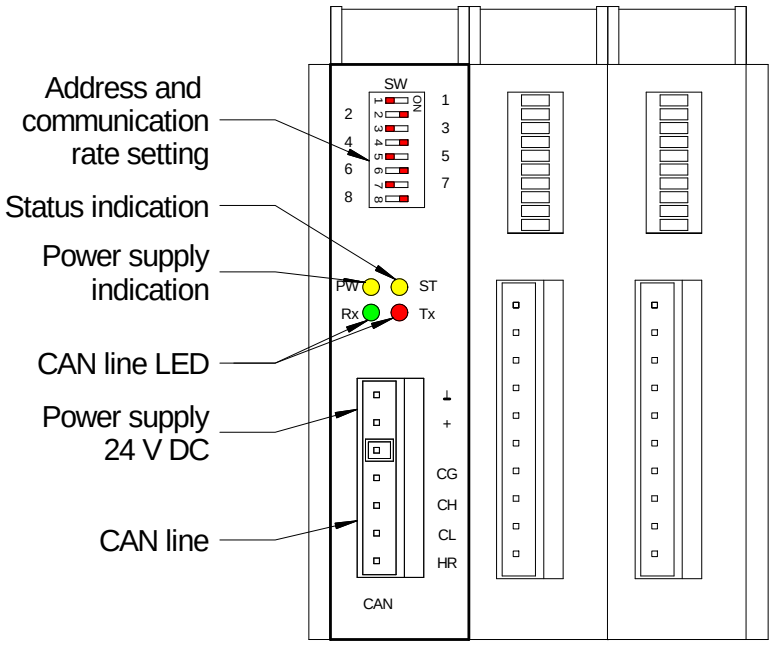
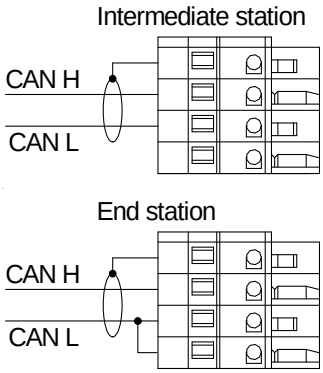
## CONNECTORS AND CONFIGURATION ELEMENTS PLACEMENT

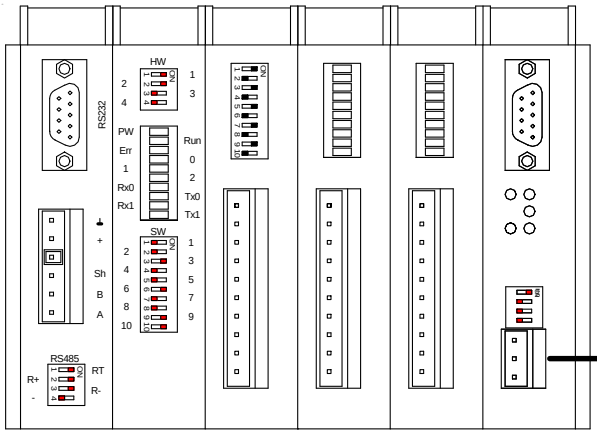



CAN line connection




| | |
|---|---|
| CG | CAN GROUND |
| CH | CAN H |
| CL | CAN L |
| HR | Terminating resistor 120 Ohm, cause a short circuit on CL |

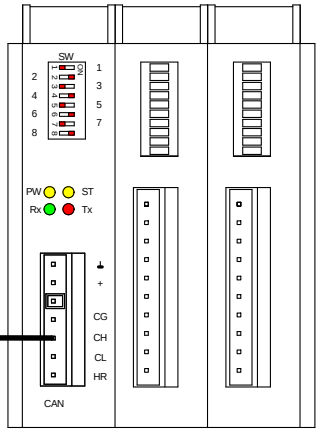
## EXAMPLE OF CONFIGURATION WITH DIOCAN MODULES



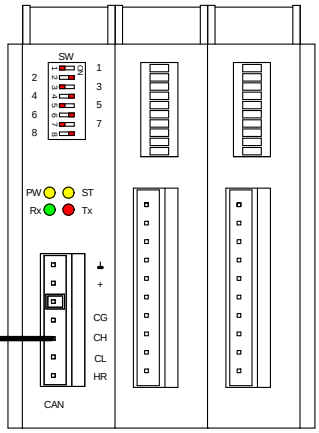

Superior ADiS control system with AD-CAN module

CAN

ADC-CAN + I/O




ADC-CAN + I/O




These types of ADiS I/O modules could be connected to the ADC-CAN unite:

**AD-DI8A**
**AD-FDI8**
**AD-PDO8**
**AD-RDO5S**