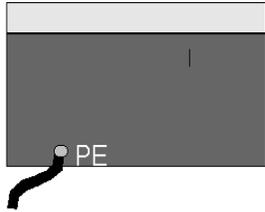


## Short Description

### Analogue signal acquisition $\mu$ CAN.1.ai-IP65



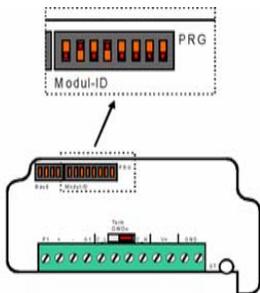
Please check the security notices before setting the device into operation.



#### 1. Non-fused earthed conductor

The non-fused earthed conductor has to be connected to the device at the outside contact (refer figure). It is not allowed to connect the non-fused earthed conductor to a contact within the housing because of EMC interference.

conductor to a contact within the housing because of EMC interference.



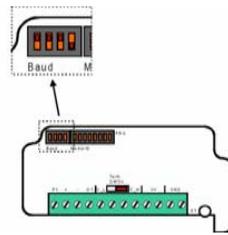
#### 2. Address Setting

The possible module ID is within the range 1..127, which corresponds to 01h..7Fh as hex number. Every node on the CAN bus needs to have a unique ID. Two nodes with the same ID on the CAN bus are not admissible. The address is coded through two HEX-rotation coders. The left one describes the High-nibble, the right on the Low-nibble of the address.

#### 3. Baudrate Setting

The baudrate is set-up with a HEX-rotation coder. The table below shows the baudrates that are supported by the  $\mu$ CAN.1.ai module. These values are recommen-

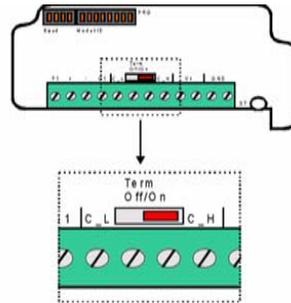
ded by the CiA. Please make sure that one of the combinations given in this table is selected and that all modules on the bus use the same baudrate. The figure shows the location of the baudrate coder.



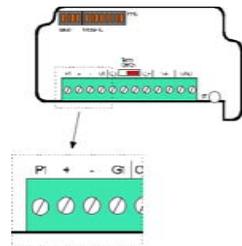
Baudrate [kBaud]	HEX
1000	9
800	8
500	7
250	6
125	5
100	4
50	3
20	2
10	1

#### 4. Termination

When several modules are used on a CAN bus, the last module must be terminated with a resistor of 120 ohm. By this reflections on the bus are minimized and communication errors are reduced. Termination of the  $\mu$ CAN modules is easy to perform: simply set the DIP-switch according to the desired termination.



#### 5. Connection of Sensors (+/-10V; 0(4)..20mA)



For connection of an analogue sensor no shorting link has to be made. The sensor is simply connected to the terminals „+“ and“-“.

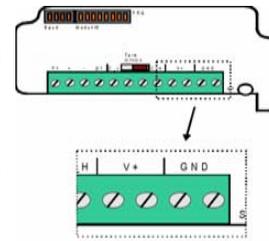
Please make sure not to confuse the poles of the sensor.

#### 6. Supply Voltage

The connectors for supply voltage are protected against confusing the poles. The positive supply is connected to V+, the two terminals are internally linked. The negative supply voltage is connected to GND. These two terminals are also internally linked.

#### 7. CAN-Bus

The two wires of the CAN bus are applied to the connectors CAN-H and CAN-L. Please make sure to insert the wires from the right side of the box and leave them as short as possible. The connectors CAN-H and CAN-L are internally connected, so the CAN bus can be fed through the module. Please refer to picture at point 4 of this document.



MicroControl GmbH & Co. KG  
Lindlastr. 2 c  
D-53842 Troisdorf  
Fon: +49 (0) 22 41 / 256 59 - 0  
Fax: +49 (0) 22 41 / 256 59 - 11

<http://www.MicroControl.net>  
[support.int@MicroControl.net](mailto:support.int@MicroControl.net)