

Safety Instructions MiniModules



General Safety Instructions

Please observe the following safety instructions and information provided with the MiniModule as well as the safety-specific information in the accompanying technical documentation.

	WARNING!
	 MiniModules without <u>high-voltage designation</u> are designed for measurements with on-board power supply systems with 12 V, 24 V and 48 V. Improper use may result in life-threatening electrical shocks. Make sure that these modules are only handled by qualified and trained personnel. Never connect a MiniModule without high-voltage designation directly to a system with higher operating voltages (> 60 V DC), e.g. high-voltage batteries.
	Observe safety instructions.
	NOTE



Improper opening of the housing will impair the operational safety and function of a MiniModule. To not open the module housing.

To not carry out any mechanical or electrical modifications on a MiniModule.

- Make sure that MiniModules are only handled by qualified and trained personnel.
- Make sure that MiniModules are only operated within the specified operating temperature range and at a relative humidity between 5 % and 95 % (non-condensing).
- In wet environments (pollution degree 4) supply voltage must not exceed 35 V DC. In dry environments the maximum permitted supply voltage is 50 V DC (+10 %)¹.
- > Only use sensor cables and cables for CAN and power supply which meet the corresponding requirements.
- ► To ensure the measurement accuracy of a MiniModule, annual calibration is recommended.

Before Putting MiniModules into Operation

 Carefully read the entire documentation delivered with a MiniModule before initial operation. Please contact CSM GmbH with any additional questions.

¹ ADMM 8 pro2: 45 V (+10 %)

CSM GmbH Germany is certified.



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