



# Safety Instructions

## HV TH-TBM



### General Safety Instructions

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

WARNING!	
	<p>HV TH-TBM measurement modules are used in high-voltage applications. Improper use of the HV measurement module may result in life-threatening electrical shocks.</p> <ul style="list-style-type: none"><li>☞ Make sure that these modules are only handled by qualified and trained personnel.</li><li>☞ Observe safety instructions.</li></ul>

WARNING!	
	<p>Improper opening of the housing will impair the operational safety of the HV measurement module and bears the risk of life-threatening electrical shocks.</p> <ul style="list-style-type: none"><li>☞ Do not open the module housing.</li><li>☞ Do not carry out any mechanical or electrical modifications on the HV measurement module.</li></ul>

- ▶ Make sure that HV TH-TBM measurement modules are only handled by qualified and trained personnel.
- ▶ Make sure that HV TH-TBM measurement modules are only operated within an operating temperature range of  $-40\text{ °C}$  to  $+85\text{ °C}$  and at a relative humidity of max. 95 % (non-condensing).
- ▶ Only use sensor cables that meet the corresponding requirements for operating HV TH-TBM measurement modules. CSM recommends the use of sensor cables with insulated thermocouples.
- ▶ To maintain the operational safety of an HV TH-TBM measurement module, an isolation test in accordance with EN 61010-1:2010 needs to be carried out at least once per year.

### Before Putting High-Voltage Measurement Modules into Operation

- ▶ If it is possible to establish a ground connection (car body or earth), use a sufficiently large wire cross-section to connect an HV TH-TBM measurement module. This is usually done by using an adequate cable (not included in the scope of delivery). The ground cable is to be connected to the module housing by using the M6 threaded bore provided for this purpose. Proper grounding has to be ensured before putting the module into operation.
- ▶ Carefully read the entire documentation delivered with an HV TH-TBM measurement module before initial operation. Please contact CSM with any additional questions.



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