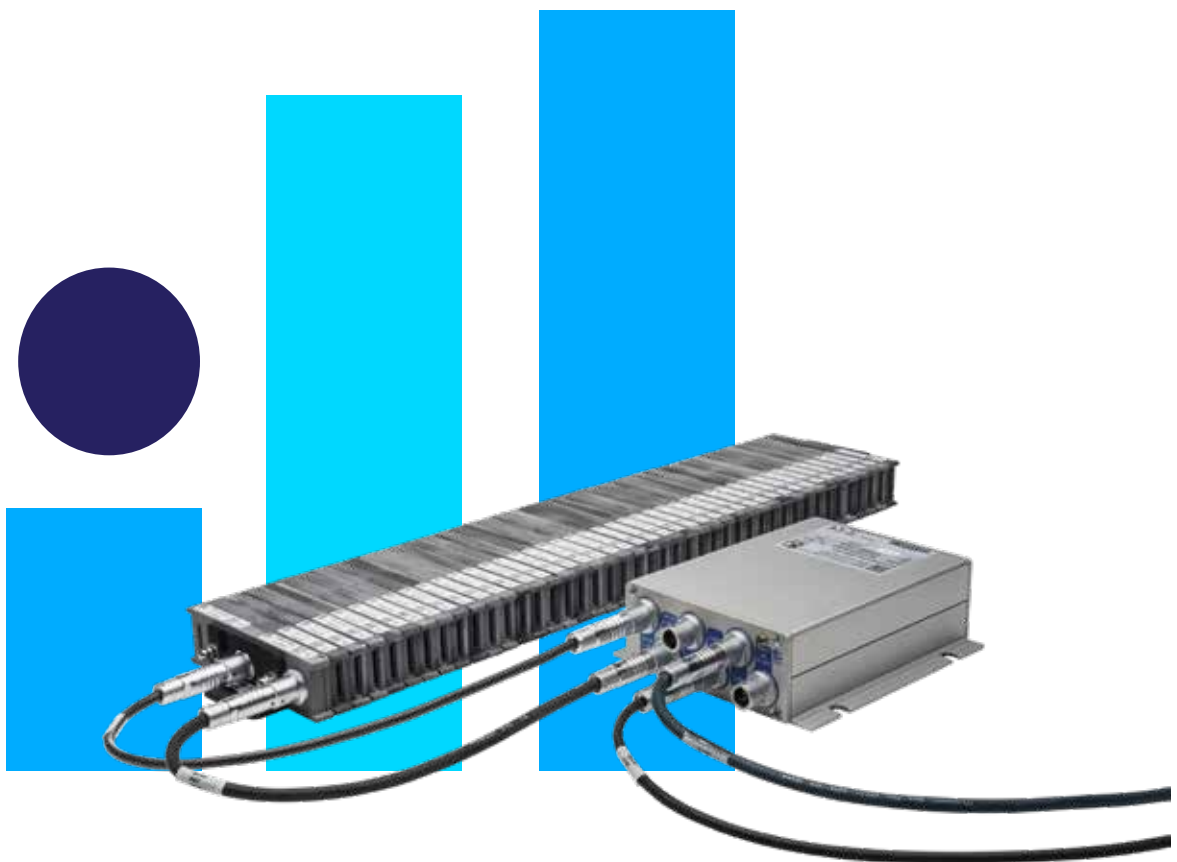


CVM G5

CELL VOLTAGE MONITORING
FOR MOBILE AND STATIONARY APPLICATIONS



BE SMARTER

- ▶ Ultra-compact, modular design.
- ▶ Scalability enables customized CVM systems.
- ▶ Integrated cable break detection.
- ▶ High measurement accuracy and time-synchronous data acquisition.
- ▶ Negative voltage ranges measurable.
- ▶ Suitable for stationary and mobile application areas, even under harsh environmental conditions.
- ▶ Modern webbased user interface.



Technical Data	CVM G5
Dimension per module (LxWxH)	100 x 10,5 x 30 mm
Number of measuring channels per module	10
Resolution	1 4 bit, approx. 700 μ V
Measuring range per channel	-1 to +5 V, optional: -3 to +3 V
Input (self-heating)	<300 mV
Accuracy	
- industrial temperature range	± 3 mV (-25 to +85 °C)
- automotive temperature range	± 6 mV (-40 to +105 °C)
Galvanic isolation	1400 V _{DC} permanent
Power supply	4,5 to 32,0 V _{DC}
Communication interfaces	2x CAN CAN 2.0B ISO 11898
Start-up time	<0,5 s
Relative humidity	20 to 60 %
Integrated temperature sensor	± 2 °C
Time synchronisation of all measuring channels	≤ 1000 Hz (internal) ≤ 100 Hz (external)
Operating temperature	-40 to +105 °C
IP protection class	IP65 (EN60529)
Common mode suppression	≥ 80 dB
Weight	25 g

Application Areas

The CVM G5 modules (Cell Voltage Monitoring) are used to monitor the individual cell voltages of fuel cell stacks, electrolysers and battery systems. They are optimised for use in research and development and are used both in test benches and in test vehicles. Accordingly, the CVM G5 systems provide reliable measurement data even under harsh environmental conditions. Depending on the data volume and speed of data processing, the modules can be operated directly via CAN bus or in combination with the optional MASTER process module via LVDS, Ethernet, EtherCAT or GPIO.

From development to the test phase to the final application in mobile and stationary systems – we create the perfect solution for you and your measurement and test requirements in the following areas:

- ▶ Automotive, marine, aerospace
- ▶ Test benches, plant engineering
- ▶ Measurement, control and regulation technology

Ordering Information

- ▶ Basic configuration:
MCM-IntelliProbe-U10Link
(Supply and communication connection module),
MCM-IntelliProbe-U10
(Cell voltage measurement module),
MCM-IntelliProbe-U10T
(Cell voltage measurement module with bus termination)
- ▶ Accessories:
Processing module MASTER (Data processing module),
CVM Web Interface

- ▶ **ULTRA COMPACT DESIGN**
- ▶ **FLEXIBLE AND MODULAR**
- ▶ **FOR ≤ 600 CHANNELS / CELLS**
- ▶ **STATIONARY AND MOBILE APPLICATION AREAS**

