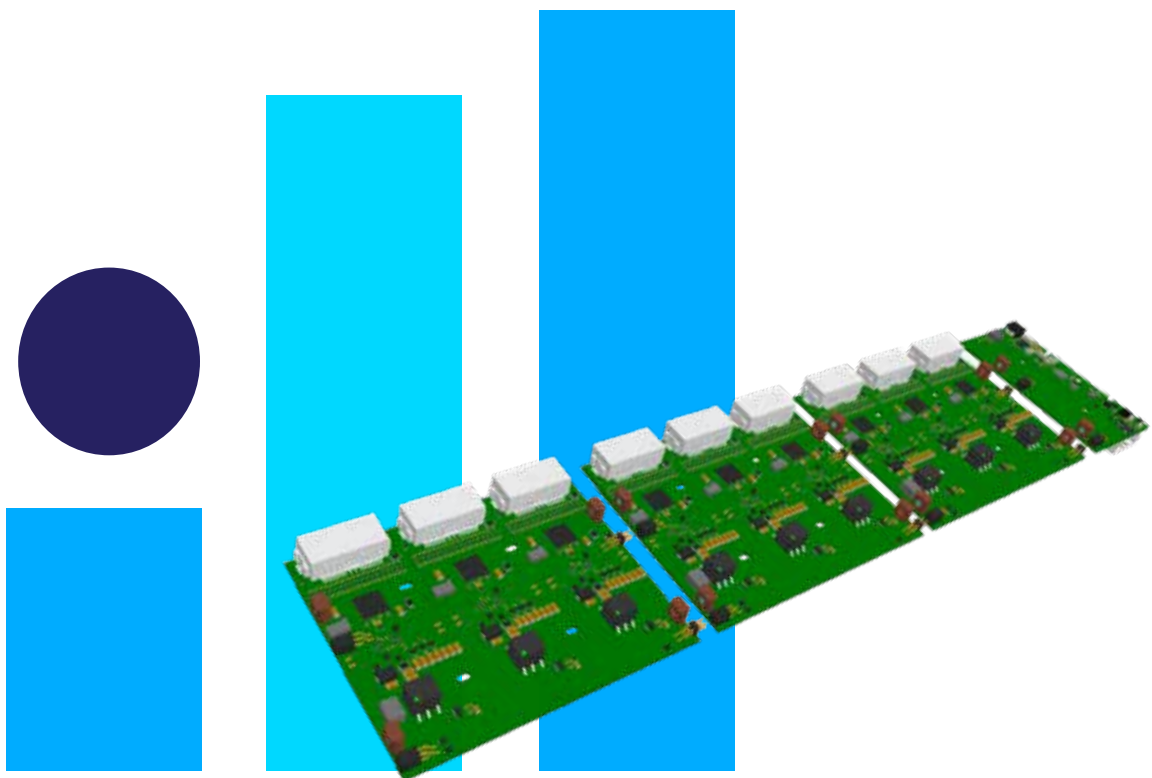


# CVM G6S

CELL VOLTAGE MONITORING  
FOR MOBILE AND STATIONARY SERIES APPLICATIONS



## BE SMARTER

- ▶ Integrated solution consisting of measurement modules, cell contacting and mechanical carrier constructions.
- ▶ Modular design with 54 channels per measuring module and target market-specific head modules.
- ▶ Cost-effective thanks to integrated circuits.
- ▶ Wide range of cell voltage pick-up solutions.
- ▶ Economies of scale through platform development.
- ▶ Scalable up to 486 measuring channels.

**Technical Data (preliminary)**

Demonstrator dimensions (LxWxH)	108 x 88 x 10,5 mm
Number of measuring channels per module	54
Cascading	up to 9 modules, i.e. maximum 486 channels
Measuring range DC per channel	-2 to +5,5 V
Resolution	16 bit (approx. 0,15mV/bit)
Accuracy	±1,0 mV
Galvanic insulation	3750 Vrms $V_{DC}$
Power supply	6 to 36,0 $V_{DC}$
Communication interfaces	target market specific, e.g. CAN-FD, Profinet
Relative humidity	20 to 60 %
Integrated temperature sensor	±2 °C
Operating temperature	-40 to +105 °C
IP protection class	IP65 incl. housing(EN60529)

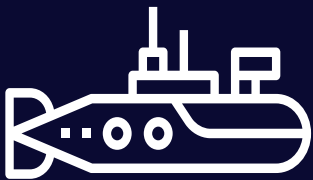
**CVM for series applications**

Like all cell voltage monitoring systems from SMART TESTSOLUTIONS, the CVM solution G6S is characterised by its modular design. The measurement modules, of which up to nine can be connected in series, are supplemented by a target market-specific head module. By using the same measurement modules in all application areas, economies of scale are achieved in production. Further cost advantages result from the use of integrated circuits instead of a discrete structure. A microchip is used as the technology basis for data acquisition on each measuring module. The measured values recorded by the ASIL-D-certified ICs are collected in a central microcontroller on the head module. The head module is also equipped with the data interfaces prevalent in the respective target market. Further components of a CVM G6S system are the cell contacting units CVP as well as the mechanical parts necessary for installation.

**Ordering Information**

- ▶ MCM CVM G6S
- ▶ The CVM G6S is adapted to the individual requirements of the planned application and the electrochemical stack used. If you are interested, please contact us.
- ▶ Your direct contact: Wajih Wertateni,  
Email: wajih.wertateni@smart-ts.de


**TARGET MARKETS**



**MARINE**



**ELECTROLYSIS**



**TEST BENCHES**



**TRAFFIC**