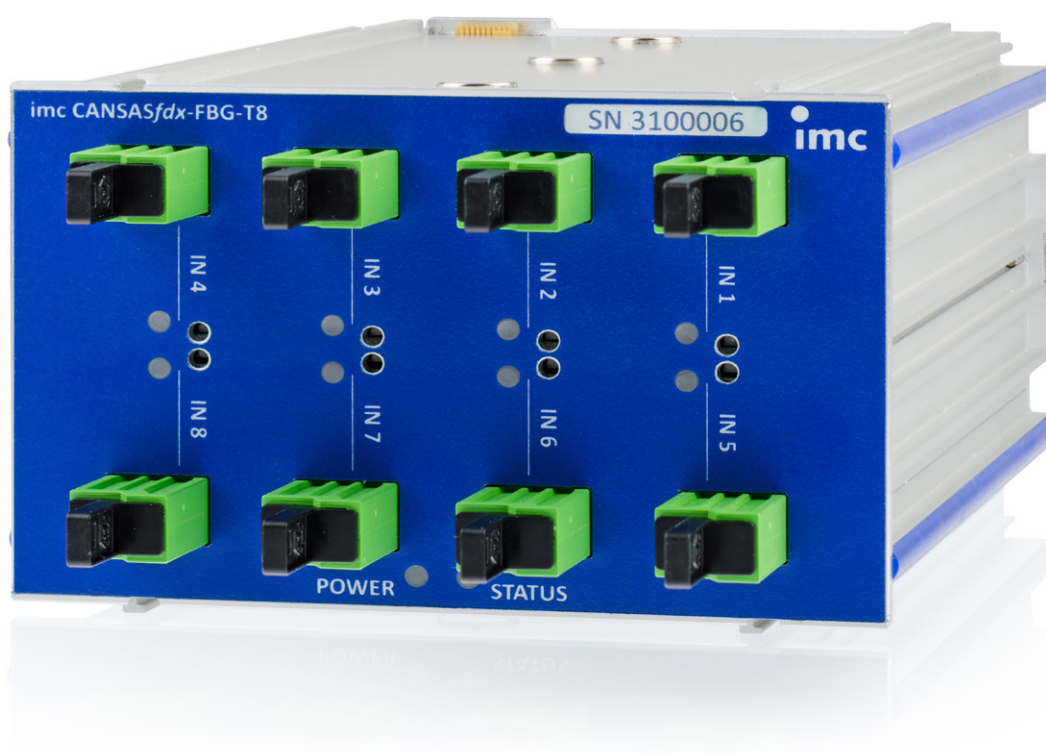


imc CANSAS-FBG-T8

interference-free • dynamic • safe



Fiber-optic CAN measurement module for safe temperature measurement

productive testing



ES France - Département Tests & Mesures
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Fiber-optic temperature measurement

Safe measurement in HV environments

The fiber-optic CAN measurement module from imc makes testing in high-voltage environments safer and easier. Thanks to the optical operating method, the measuring point and the instrument are fully decoupled. At eight optical inputs, the module can measure temperatures on arbitrary electrical levels using specially developed sensors with fiber Bragg grating technology (FBG). Data are output via CAN.

At a glance

- 8 channels
- Temperature measurements
- 1 kHz sampling rate
- 100 Hz bandwidth
- CAN output

Highly dynamic measurement
with 1 kHz sampling rate

Immunity to
EMI/ESD for clean
measurement results

Ultra-fast response
times of 0.2 s

Operating range
-40° C ... +220° C

Electric motors



Motor winding temperature
measurements

Power electronics

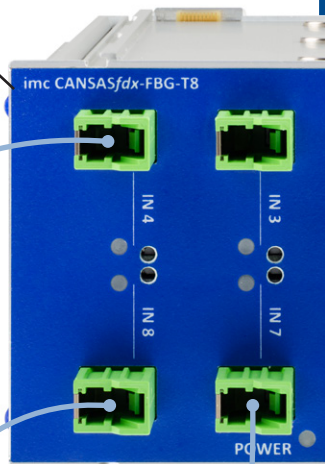


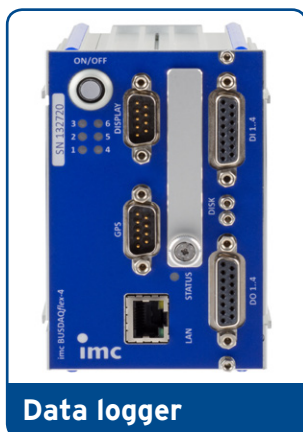
Heating of power electronics

Battery systems



Temperature distribution during
charging and discharging processes



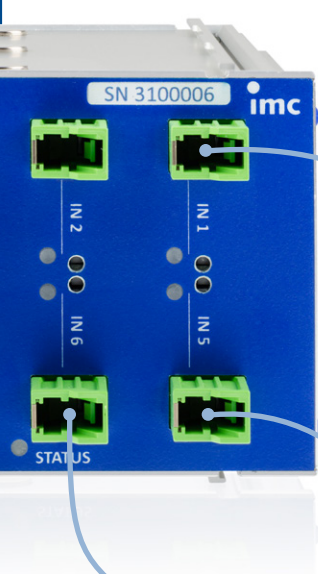


Data logger

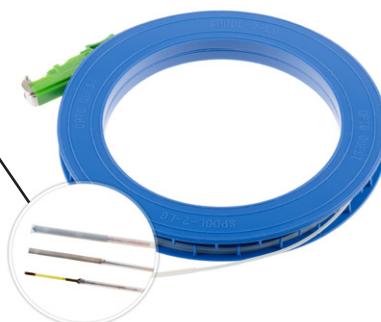


Test stand environment

CAN-bus



Three sensor types:
from small and fast to highly robust

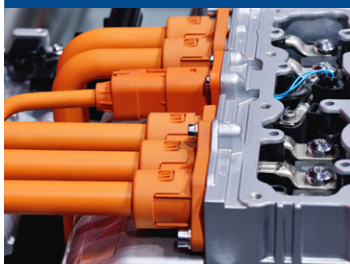


Safe measurement in
HV environments due
to non-conductive
sensor technology

FBG sensors save up to 90% space
compared to classic HV sensors

Sensor diameter of 0.5 mm
fits into plug connector

Wiring harness



Safety measurements on the
wiring harness

Charging equipment



Heating of connectors
during charging processes

HV environment



Measuring temperatures at
high potentials





Fiber-optic and electric measurement technology combined in one system

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