

DiLiCo CURR TEMP for baltic quickCONNECTfixture

Current density and temperature distribution measurement

- ✓ ageing analysis of membranes
- ✓ optimization of operating strategies
- ✓ for fuel cells and electrolyzers
- ✓ including software and cell voltage measurement
- ✓ 5 connections for external temperature sensors



	DiLiCo CURR TEMP	DiLiCo CURR TEMP EIS
range current density	up to $\pm 3 \text{ A/cm}^2$	up to $\pm 6 \text{ A/cm}^2$
range temperature	0 to 120 °C	0 to 120 °C
Impedance Spectroscopy connection	no	yes
number of segments (column x row)	64 (8 x 8)	up to 100 segments (customized)
cell voltage measurement	0 up to 2.5 V	
communication	CAN, USB (via adapter)	
further connections	up to 5 temperature sensors (PT100, PT500 or PT1000)	

PRODUCT DESCRIPTION

The **DiLiCo CURR TEMP** product series uses sensors integrated within the individual segments of the measurement board and can thus record the current intensity (negative and positive current direction) and the temperature. This measurement device is specially adapted for use with **baltic quickCONNECTfixture (qCf) FC25** and **qCf FC50/125** cell frames.

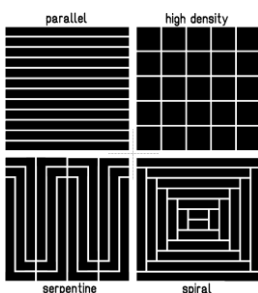
The current density and temperature measurement visualizes the activity of the membrane and thus allows analysis for the design of bipolar plates, seals, flow fields and catalysts. From these results, operating strategies and components can be optimized and analyzed. **DiLiCo CURR TEMP** thus provides valuable insight into the interior of fuel cells and electrolyzers.

The customized version **DiLiCo CURR TEMP EIS** is additionally equipped with a connection for potentiostats and allows electrochemical impedance measurements to be performed on individual segments of the sensor layer.

All versions of DiLiCo CURR TEMP have an integrated cell voltage measurement and a port for connecting up to 5 external temperature sensors.

DELIVERY

- ✓ DiLiCo CURR TEMP sensor layer
- ✓ evaluation electronics with software
- ✓ external power supply
- ✓ instructions



customized sensor layer designs



sensor layer with evaluation electronics