

DILICO cell voltage 36/72

Inexpensive cell voltage measurement for your stack

- Wide measuring range from -4.5 to +4.5 V per cell
- Cell protection by monitoring over- and undervoltage
- Enhanced safety through integrated relay output for fault shutdown
- Cable-free contacting solutions on request



TECHNICAL FEATURES	DILICO cell voltage 36	DILICO cell voltage 72
Channels	Up to 36 cells in series	Up to 72 cells in series
Measurement range per channel	-2.5 to +2.5 V _{DC} (low range mode) -4.5 to +4.5 V _{DC} (high range mode)	
Maximum voltage range	$-80 V_{DC} \leq U \leq +150 V_{DC}$ (between cell 0 and cell 36 resp. 37 and 72)	
Resolution	1.5 mV (low range mode) 3.0 mV (high range mode)	
Communication	CAN, USB (via adapter)	
Total measuring error (T = 25 °C)	±15 mV (low range mode) ±20 mV (high range mode)	
Measuring interval	24 ms@36 cells	37 ms@72 cells
Measuring interval with 5 devices	48 ms@36 cells	85 ms@72 cells
Leakage current on input	±35 µA measuring mode $U_{cell} > 0 V$ ±550 µA measuring mode $U_{cell} < 0 V$ ±1.6 µA idle mode	
Internal insulation voltage	1.5 kV	

BENEFITS

- Designed for high-volume galvanic cell production
- Over and undervoltage detection for fault analysis
- Immediate protection via dry contact to prevent damage

CONTACTING SOLUTIONS

- Classical cable solutions for reliable voltage monitoring
- Optimized for cost efficiency and functionality
- Custom cable-free contacting solutions available – get in touch for details!

SCOPE OF DELIVERY

- DILICO cell voltage 36/72 in metal housing
- 24 V_{DC} power adapter
- Operating instructions
- (Optional) cable solution for cell contacting
- (Optional) software for visualization and data storage

