

S-DIAS RealTimeClock Module

RC 001



with 1 RealTimeClock battery buffered

The S-DIAS RealTimeClock module provides battery buffered date and time information for processor modules on the bus, which have no integrated real-time clock. Buffering of the RealTimeClock without supply is realized with a Lithium battery.

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
Operating conditions	pollution degree 2 altitude up to 2000 m	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3,5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20

Performance Data

Real-time clock	yes (battery buffered)	
Precision	-50 ppm to +25 ppm (typ. -5 ppm) @ 0 °C ambient temperature -50 ppm to +25 ppm (typ. -20 ppm) @ 25 °C ambient temperature -95 ppm to +15 ppm (typ. -70 ppm) @ 45 °C ambient temperature -150 ppm to -20 ppm (typ. -120 ppm) @ 60 °C ambient temperature	

Electrical Requirements

Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 40 mA	maximum 50 mA

Article Number and Miscellaneous

Article number	20-012-001	
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)	
Standard	UL 508 (in preparation)	