

S-DIAS Interface Module

ISE 031



with 1 RS232 interface with handshake lines
or 2 RS232 interfaces without handshake lines
1 RS485 interface with switchable termination
and spread resistors
1 TTY

The S-DIAS ISE 031 interface module has an RS232 interface with the handshake signals RTS and CTS, an RS485 and active TTY interface. Alternatively to the handshake signals, these signals can be configured as a second RS232 interface. The ISE 031 also has an RS485 interface with switchable 120 Ω termination and spread resistors (switchable via software).

Performance Data

Interfaces	1x RS232 (2x RS232, switchable via software) 1x RS485 1x TTY (20 mA)		
Adjustable data transfer rates	RS232/RS485	2400 Baud, 4800 Baud, 9600 Baud, 19200 Baud, 38400 Baud, 57600 Baud, 62500 Baud, 115200 Baud	
	RS485	2400 Baud, 4800 Baud, 9600 Baud, 19200 Baud, 38400 Baud, 57600 Baud, 62500 Baud, 115200 Baud, 230400 Baud, 460800 Baud, 921600 Baud	
	TTY	2400 Baud, 4800 Baud, 9600 Baud	
Over voltage protection	RS232	pin Rx/D	±30 V
		pin Tx/D	±15 V
	RS485	pin A/B	-9 V ... +14 V
	TTY	pin 20 mA	70 V
Spread resistor	RS485		1 kΩ => 5 V 1 kΩ => GND internally settable
Terminating resistor			120 Ω internally settable
Maximum connectable TTY participants	depends on the voltage drop on the participants, cables and connectors (up to a maximum of 6)		

Short-circuit proof	yes
Status LEDs	yes
Send buffer	240 Byte
Receive buffer	784 Byte

Electrical Requirements

Power supply +24 V	18-30 V DC	
Current consumption of the +24 V supply	maximum 100 mA	
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 60 mA	maximum 76 mA

Article Number and Miscellaneous

Article number	20-101-031	
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)	
Standard	UL 508 (E247993)	
Approvals	UL, cUL, CE	

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +55 °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