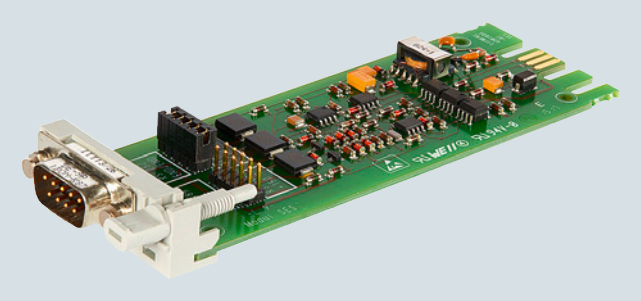
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Overview



SES module (serial interface for RS 232 and RS 485)

All process variables can be sent via the interface module and all operating states, setpoints, manipulated variables, parameters and configurations can be sent and received.

Serial interface traffic can take place over RS 232 as point-to-point connection.

With use in SIPART DR21, DR22 and DR24 controllers, data traffic is also possible over RS 485 as serial databus.

Switchover between RS 232 and RS 485 takes place by means of jumper plugs on the module.

A detailed technical description of the frame traffic is available per controller type for creation of specific coupling software.

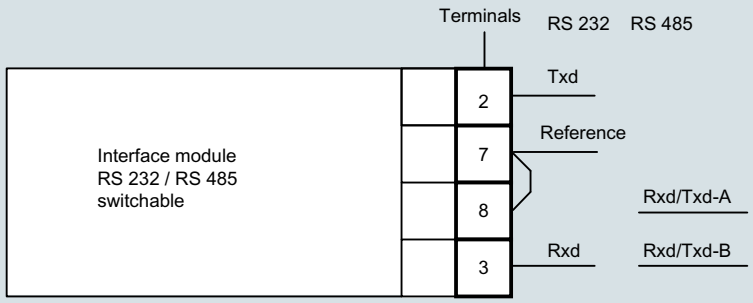
The interface module offers galvanic isolation between the individual controllers and the higher-level system.

Technical specifications

SES module 6DR2803-8C	
Transmittable signals	RS 232 or RS 485
Transmittable data	Operating state, process variables, parameters and configuring switches
Transmission procedure	According to DIN 66 258 A or B
Character format	10 bits (start bit, ASCII characters with 7 bits, parity bit and stop bit)
Transmission speed	300 ... 9600 bit/s
Transmission	Asynchronous, half-duplex
Addressable stations	32
Time monitoring of the data traffic	1 ... 25 s or none
Galvanic isolation	Up to 50 V UC
RS232 point-to-point	
Cable capacitance[1)]	≤ 2.5 nF
Guideline value cable length	
• Flat ribbon cable without shield	≤ 50 m
• Round cable with shield	≤ 25 m
RS485 bus	
Cable capacitance[1)]	≤ 200 nF
Guideline value cable length	
• Flat ribbon cable without shield	≤ 1200 m
• Round cable with shield	≤ 600 m

[1)] The cable capacitance limits the permissible cable length.

Circuit diagrams



Wiring of SES module 6DR2803-8C