



SIMATIC DP, Electronics module ET 200S 4AI standard I-2-wire, 4-20 mA; 13 bit, 15 mm width, for 2-wire transducer Cycle time 40 ms/module with SF LED (group fault)

General information	
Product function	
<ul style="list-style-type: none"> <li>• Isochronous mode</li> </ul>	No
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> <li>• Rated value (DC)</li> <li>• Reverse polarity protection</li> </ul>	24 V; From power module Yes
Input current	
from load voltage L+ (without load), max.	125 mA
from backplane bus 3.3 V DC, max.	10 mA
output voltage / header	
supply voltage of the transmitters / header	
<ul style="list-style-type: none"> <li>• product function / supply voltage for transmitters</li> <li>• product feature / of the supply voltage for transmitters / short-circuit proof</li> </ul>	Yes Yes; approx. 200 mA for module
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
<ul style="list-style-type: none"> <li>• Address space per module, max.</li> </ul>	8 byte
Analog inputs	
Number of analog inputs	4
permissible input current for current input (destruction limit), max.	30 mA; limited electronically
Cycle time (all channels) max.	40 ms; 33 to 40 ms
Input ranges (rated values), currents	
<ul style="list-style-type: none"> <li>• 4 mA to 20 mA</li> </ul>	Yes; Into 25 Ohm
Cable length	
<ul style="list-style-type: none"> <li>• shielded, max.</li> </ul>	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> <li>• Resolution with overrange (bit including sign), max.</li> <li>• Integration time, parameterizable</li> <li>• Integration time (ms)</li> <li>• Interference voltage suppression for interference frequency f1 in Hz</li> </ul>	13 bit; 4 to 20 mA: 13 bit Yes 16,67 / 20 ms 50 / 60 Hz
Smoothing of measured values	
<ul style="list-style-type: none"> <li>• parameterizable</li> </ul>	Yes; in 4 stages

- Step: None Yes; 1x cycle time
- Step: low Yes; 4x cycle time
- Step: Medium Yes; 16x cycle time
- Step: High Yes; 32x cycle time

#### Errors/accuracies

##### Operational error limit in overall temperature range

- Current, relative to input range, (+/-) 0.4 %

##### Basic error limit (operational limit at 25 °C)

- Current, relative to input range, (+/-) 0.3 %

#### Interrupts/diagnostics/status information

##### Diagnoses

- Wire-break Yes; Measuring range 1 to 5 V only
- Group error Yes
- Overflow/underflow Yes

##### Diagnostics indication LED

- Group error SF (red) Yes

#### Parameter

Remark 7 byte

Diagnostics wire break 1

Group diagnostics 1

Overflow/underflow 1

#### Potential separation

##### Potential separation analog inputs

- between the channels No
- between the channels and backplane bus Yes
- Between the channels and load voltage L+ No

#### Isolation

Isolation tested with 500 V DC

#### Dimensions

Width 15 mm

Height 81 mm

Depth 52 mm

#### Weights

Weight, approx. 40 g

**last modified:** 4/1/2022 