

SIMATIC DP, Electronics module f. ET200S, 2AI Standard I-2DMU
 15 mm width, 4.. 20mA; 13 bit for 2-wire transducer Cycle time 65
 ms/channel with SF LED (group fault)



General information

Product function

- Isochronous mode No

Supply voltage

Load voltage L+

- Rated value (DC) 24 V; From power module
- Reverse polarity protection Yes; Destruction limit 35 mA per channel

Input current

- from load voltage L+ (without load), max. 80 mA
- from backplane bus 3.3 V DC, max. 10 mA

Power loss

- Power loss, typ. 0.6 W

Address area

Address space per module

- Address space per module, max. 4 byte

Analog inputs

- Number of analog inputs 2

permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	Number of active channels per module x basic conversion time
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • 4 mA to 20 mA 	Yes; on 50 ohms
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. 	13 bit; 4 to 20 mA: 13 bit
<ul style="list-style-type: none"> • Integration time (ms) 	16,7 / 20 ms
<ul style="list-style-type: none"> • Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
<ul style="list-style-type: none"> • Conversion time (per channel) 	65 ms; 55 / 65 ms
Smoothing of measured values	
<ul style="list-style-type: none"> • parameterizable 	Yes; In four stages by means of digital filtering
<ul style="list-style-type: none"> • Step: None 	Yes; 1x cycle time
<ul style="list-style-type: none"> • Step: low 	Yes; 4x cycle time
<ul style="list-style-type: none"> • Step: Medium 	Yes; 32x cycle time
<ul style="list-style-type: none"> • Step: High 	Yes; 64x cycle time
Errors/accuracies	
Operational error limit in overall temperature range	
<ul style="list-style-type: none"> • Current, relative to input range, (+/-) 	0.6 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> • Current, relative to input range, (+/-) 	0.4 %
Interrupts/diagnostics/status information	
Diagnoses	
<ul style="list-style-type: none"> • Wire-break 	Yes
<ul style="list-style-type: none"> • Group error 	Yes
<ul style="list-style-type: none"> • Overflow/underflow 	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • Group error SF (red) 	Yes
Parameter	
Remark	4 byte
Measurement type/range	deactivated / 4 to 20 mA
Group diagnostics	Disable / enable
Overflow/underflow	Disable / enable
Potential separation	
Potential separation analog inputs	

- between the channels
- between the channels and backplane bus
- Between the channels and load voltage L+

No

Yes

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: 12/09/2020