

created: 05.07.12/Kofler checked: 05.07.12/Pflügl released: 06.07.12/IE

E2 interface:

Addition to the specification E2 interface "specification E2-interface_e2.doc":

These parameters/values[hex] can be read by the E2 interface:

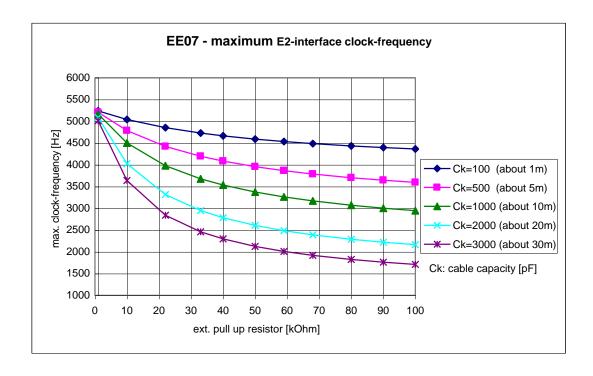
EE07:

command:	return-value	kind	format	measuring-range	output:
Group	0x07				
Sub-Group	0x*9				
Available measuring-values	0x03				
Statusbyte:	0x0x				
Measuring value 1:		Humidity	unsig. int	0 - 100%rH	1/100%rH
Measuring value 2:		Temperature	unsig. int	233,15 - 353,15°K	1/100°K
Measuring value 3:		Not defined	_		
Measuring value 4:		Not defined			

^{*} depending on product version (e.g. 0x29)

Symbol	Parameter	Minimum	Maximum	Unit	Remark
R_{up}	Pull-up resistor	10	100	kΩ	See remark 1

Remark 1: The maximum data rate that can be achieved is dependent on the combination of the line capacity and the pull-up resistors.

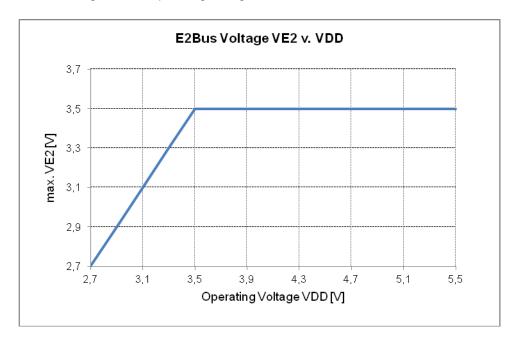




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EE07-02:

E2Bus voltage versus operating voltage:





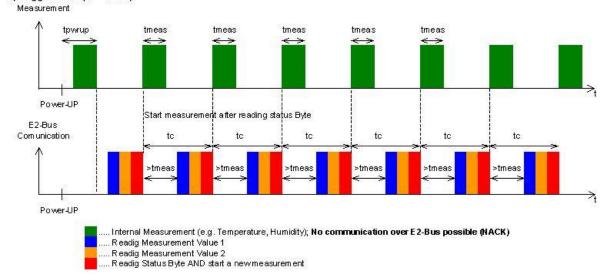
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Measurement Timing

	typical	maximum
t pwrup	270 ms	300 ms
t meas	260 ms	300 ms
t cfree	1 sec	

1.) Free running mode Measurement tofree tofree tmeas Power-UP Start comunication during Measurement ==> Slave send NACK E2-Bus Comunication OK after Measurement Comunication Start measurement after reading status Byte Power-UP Internal Measurement (e.g. Temperature, Humidity); No communication over E2-Bus possible (NACK) Readig Measurement Value 1 Readig Measurement Value 2 Readig Status Byte AND start a new measurement

2.) Trigger mode (tc < tcfree)



Revision: chart "E2Bus voltage versus operating voltage" adapted