



Indu-Sol GmbH  
Blumenstrasse 3  
04626 Schmoelln

Telephone:  
+49 (0) 34491 5818-0  
Telefax:  
+49 (0) 34491 5818-99

Email:  
info@indu-sol.com  
Homepage:  
www.indu-sol.com

## The quality tester for ASi and ASi safety

### The bus state at a glance



### Bus state with just one click

Just one mouse click and you will get an overview on the actual communication quality. All measured values are shown device-related as a bar chart. A colour identification similar to a traffic light system shows the bus state as regards the logical and physical quality parameters in manner.

### Contacting with just one "snap"

The ASi View can be easily connected to the ASi bus by the M12 connector being part of the accessories supplied. The required adapter is simply snapped onto the ASi line. As measuring point we recommend the immediate vicinity of the master and the relevant ends of the individual ASi segments.

### Ready for use instantly

No separate voltage supply is needed to use the ASi View. Connection to a programming device/notebook is rendered via USB that also serves as energy source.



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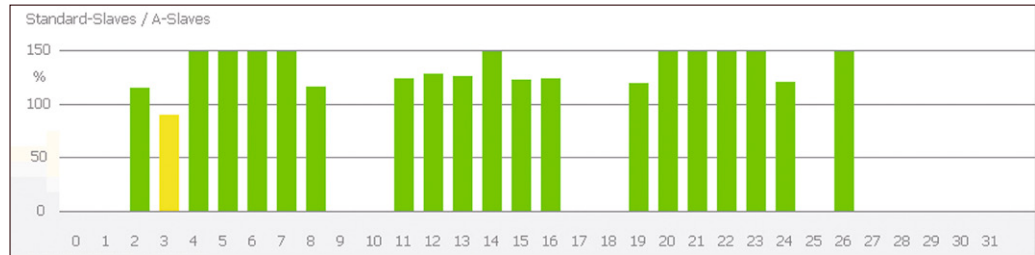
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## 2 in 1 - Physical parameters & logical telegram traffic

### Physical evaluation

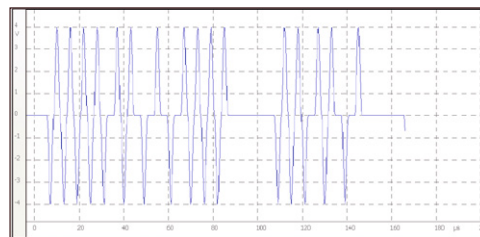
The pre-defined quality limit of 100% should always be reached by the measured value (bar height). Every bar is a picture of the bit form that results from the time response and level of the signal sent for each node.



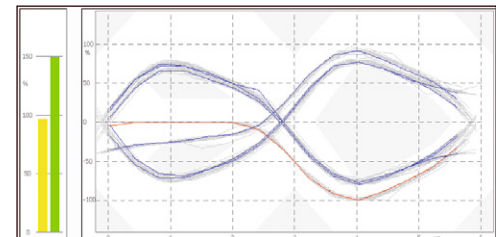
ASi View – Overview of signal quality

### In-depth analysis

An integrated oscilloscope is available for in-depth analyses by which EMC faults, signal shape problems and reflection can be detected. An “eye diagram” is another way to display the bit form. The “eye opening” provides information on the measured noise of the ASi signal.



ASi View – Oscillograms



ASi View – “Eye diagram”

### Logical evaluation

The analysis of the telegram traffic provides information on the number and kind of device-related telegram errors. It is classified whether the call or the response failed. In addition the pause periods between the master calls and slave responses per node are determined. Pause period of 50us (limit: 60us) should not be exceeded.

Standard- und A-Slaves:						B-Slaves:					
Anzahl	Master-F	Slave-F	Anzahl	Master-F	Slave-F	Anzahl	Master-F	Slave-F	Anzahl	Master-F	Slave-F
1:	4760	2	0	16:	4762	0	0	1:	4770	0	0
2:	9506	0	0	17:	4799	0	0	2:	0	0	0
3:	4765	1	0	18:	4782	0	0	3:	4740	0	0
4:	4870	120	0	19:	4817	0	0	4:	4763	0	0
5:	4764	1	0	20:	4802	1	0	5:	4780	0	0
6:	4746	0	0	21:	4765	0	0	6:	4781	0	0
7:	4754	1	0	22:	4764	0	0	7:	4770	0	0
				23:	4767	0	0				
								16:	4752	0	0
								17:	4931	211	0
								18:	4739	0	0
								19:	4716	2	0
								20:	4723	0	0
								21:	4750	0	0
								22:	4747	0	0
								23:	4744	0	0

ASi View – Details of error statistics

### Ordering details

Ordering details	Art. No.
ASi View	120010001
Active measuring point ASiMA	120040000
M12 connection cable	120010003



Active measuring point ASiMA