



ProfiTrace detailed network report

1 General

Company: Oil and Gas Company Inc

Network name: Tank 4

Project details summary:

This network consists of only one segment. The segment spans about 75 meters of standard profibus cable. There is 1 master and 4 slaves present on the network. One terminating resistor is enabled on the master, which is a Siemens PLC. The other terminating resistor is enabled on the LG device

(This text is applied by the end-customer. Please refer to section 'Project details' for the complete text)

2 Used tools

Serial number used ProfiCore: 0842400006

Software version ProfiTrace: V2.3

3 Network properties

Transmission speed: 1.5 Mbps

Number of Masters: 1

Number of slaves: 4

Cycle time: Min: 1.12 ms, Avg: 3176.71 ms, Max: 9606.78 ms

4 Conclusion

No deviations found

Deviations found

5 Remarks summary

The slaves on address 8 and 125 have communication problems. But there is no slave present on address 8, so the PLC programmer should check the configuration of the PLC.

(This text is applied by the end-customer. Please refer to section 'Remarks' for the complete text)

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6 Tested subjects:

6.1 Slaves that have been lost at least one time:	125	<input type="checkbox"/>
6.2 Slaves that generated diagnostics while in data exchange:	32, 33, 36, 125	<input type="checkbox"/>
6.3 Devices that have caused illegal responses:	125	<input type="checkbox"/>
6.4 Device found on reserved address 126:		<input checked="" type="checkbox"/>
6.5 Slaves that caused retries:	125	<input type="checkbox"/>
6.6 Slaves that caused syncs:	8, 125	<input type="checkbox"/>
6.7 The following alien slaves are found:		<input checked="" type="checkbox"/>
6.8 Highest station address (HSA) is 126:		<input checked="" type="checkbox"/>
6.9 The watchdog on the following slaves are not enabled:		<input checked="" type="checkbox"/>
6.10 Parameters have been sent to the following slaves:		<input checked="" type="checkbox"/>
6.11 Slave or class 1 master found on address 0:		<input checked="" type="checkbox"/>

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7 Project details

This network consists of only one segment. The segment spans about 75 meters of standard profibus cable. There is 1 master and 4 slaves present on the network. One terminating resistor is enabled on the master, which is a Siemens PLC. The other terminating resistor is enabled on the LG device (address 33).

8 Remarks

The slaves on address 8 and 125 have communication problems. But there is no slave present on address 8, so the PLC programmer should check the configuration of the PLC.

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9 Live list

	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
10	10	11	12	13	14	15	16	17	18	19
20	20	21	22	23	24	25	26	27	28	29
30	30	31	750-333 WAGO	GPL-DT4 LGIS	34	35	ET 200S (IM151)	37	38	39
40	40	41	42	43	44	45	46	47	48	49
50	50	51	52	53	54	55	56	57	58	59
60	60	61	62	63	64	65	66	67	68	69
70	70	71	72	73	74	75	76	77	78	79
80	80	81	82	83	84	85	86	87	88	89
90	90	91	92	93	94	95	96	97	98	99
100	100	101	102	103	104	105	106	107	108	109
110	110	111	112	113	114	115	116	117	118	119
120	120	121	122	123	124	Blackbox	126			

Legend:

	No activity		No activity
	Device is in data exchange		Master station
	Device is lost		Slave station
	Device has a parameter error		
	Device has a configuration error		

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10 Address list

Address	IdentNo	Manufacturer	Model name	GSD name
3	-	-	Master	-
32	B754	WAGO Kontakttechnik GmbH	750-333 WAGO	WAGOB754.GSD
33	07B3	LG Industrial Systems Co., Ltd.	GPL-DT4 LGIS	LGIS07B3.GSD
36	806A	SIEMENS	ET 200S (IM151)	SIEM806A.GSD
125	696A	ACMI	Blackbox	BLCK696A.GSD

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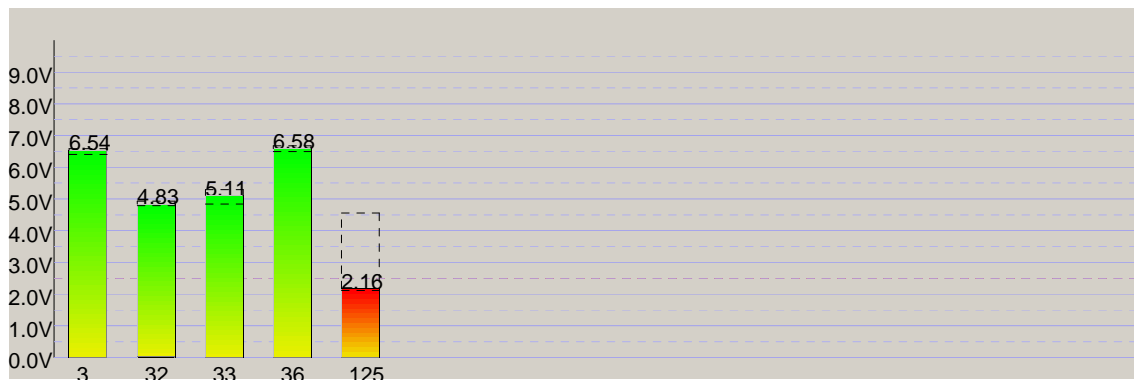
11 Bar graph

11.1 Segment (Segment of tank 4)

Segment type: DP Segment

11.1.1 Measurement point (Measuring point at device 3)

Segment / Measuring point: Segment of tank 4 / Measuring point at device 3 (1/1):



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11.1.2 Measurement point (Measuring point at device 33)

Segment / Measuring point: Segment of tank 4 / Measuring point at device 33 (1/1):



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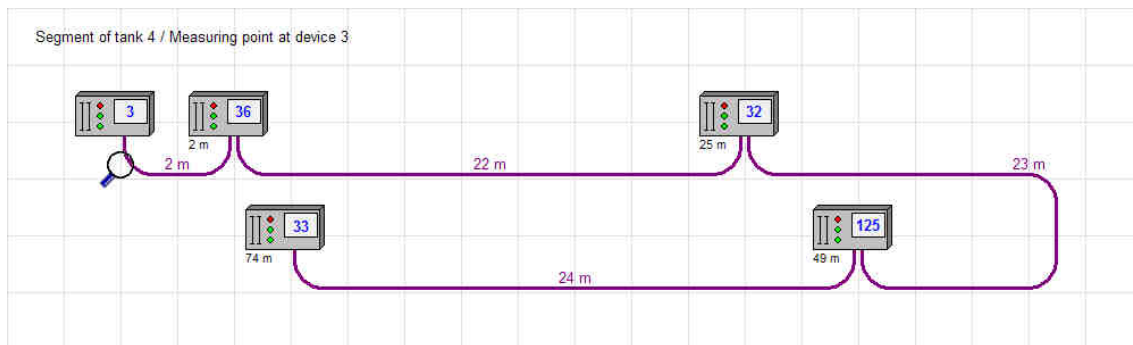
12 Topology

12.1 Segment (Segment of tank 4)

Segment type: DP Segment

12.1.1 Measurement point (Measuring point at device 3)

Segment / Measuring point: Segment of tank 4 / Measuring point at device 3



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13 Device details

13.1 Segment (Segment of tank 4)

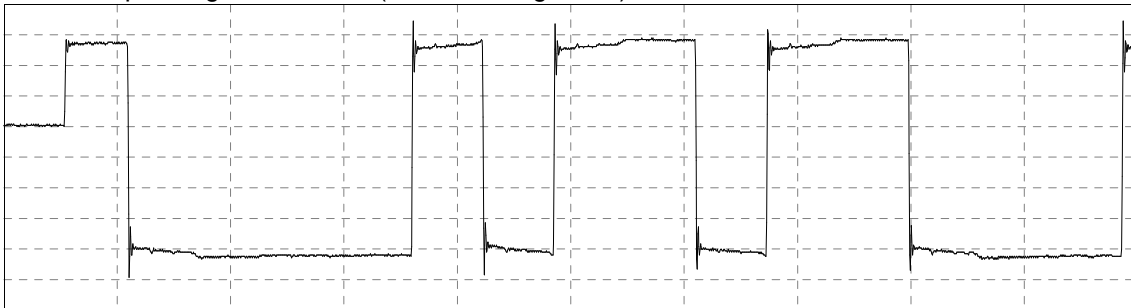
Segment type: DP Segment

13.1.1 Measurement point (Measuring point at device 3)

Segment / Measuring point: Segment of tank 4 / Measuring point at device 3

Address: 3
Device name: Master
Device type: Master
Channel: Primary

Oscilloscope image of device 3 (AB Diff voltage, Min) :



Address: 32
Device name: 750-333 WAGO
Device type: Slave
Channel: Primary

IdentNo: B754
Manufacturer: WAGO Kontakttechnik GmbH
Model name: 750-333 WAGO
I/O length (bytes): 6 in, 1 out
Signal voltage: Min: 5.14 V, Max: 5.20 V, Last: 5.15 V
Diag count while DX: 1
Total retry count: 0
Times lost: 0

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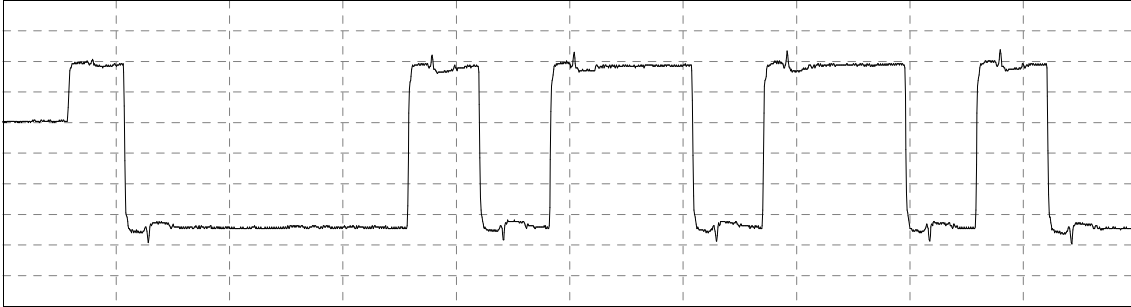
Signature:

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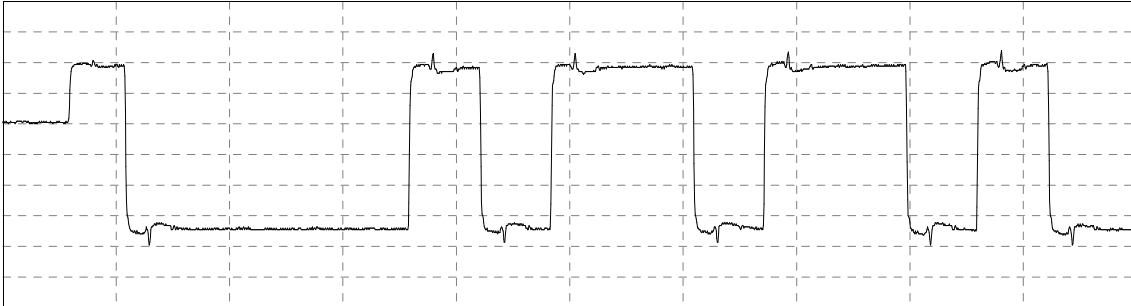
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Segment / Measuring point: Segment of tank 4 / Measuring point at device 3

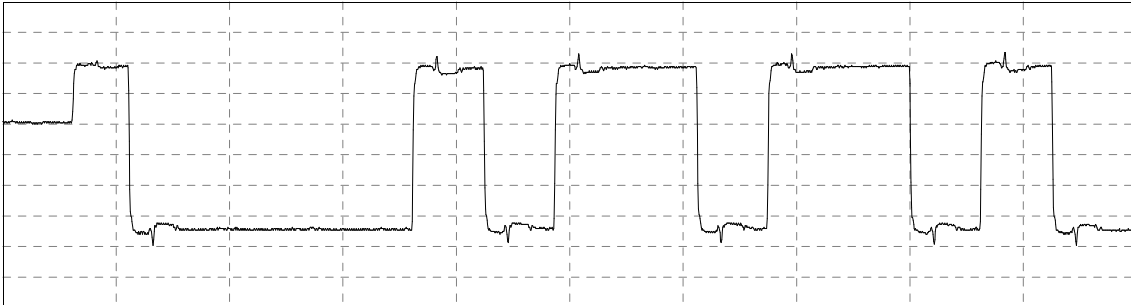
Oscilloscope image of device 32 (AB Diff voltage, Min) :



Oscilloscope image of device 32 (AB Diff voltage, Max) :



Oscilloscope image of device 32 (AB Diff voltage, Last) :



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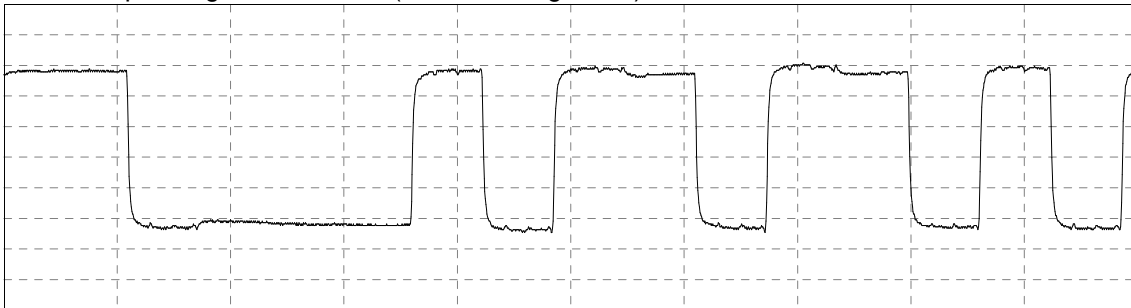
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Segment / Measuring point: Segment of tank 4 / Measuring point at device 3

Address: 33
Device name: GPL-DT4 LGIS
Device type: Slave
Channel: Primary

IdentNo: 07B3
Manufacturer: LG Industrial Systems Co., Ltd.
Model name: GPL-DT4 LGIS
I/O length (bytes): 2 in, 2 out
Signal voltage: Min: 5.16 V, Max: 5.57 V, Last: 5.34 V
Diag count while DX: 1
Total retry count: 0
Times lost: 0

Oscilloscope image of device 33 (AB Diff voltage, Min) :



Address: 36
Device name: ET200S SIEMENS
Device type: Slave
Channel: Primary

IdentNo: 806A
Manufacturer: SIEMENS
Model name: ET 200S (IM151)
I/O length (bytes): 1 in, 1 out
Signal voltage: Min: 6.79 V, Max: 6.86 V, Last: 6.82 V
Diag count while DX: 2
Total retry count: 0
Times lost: 0

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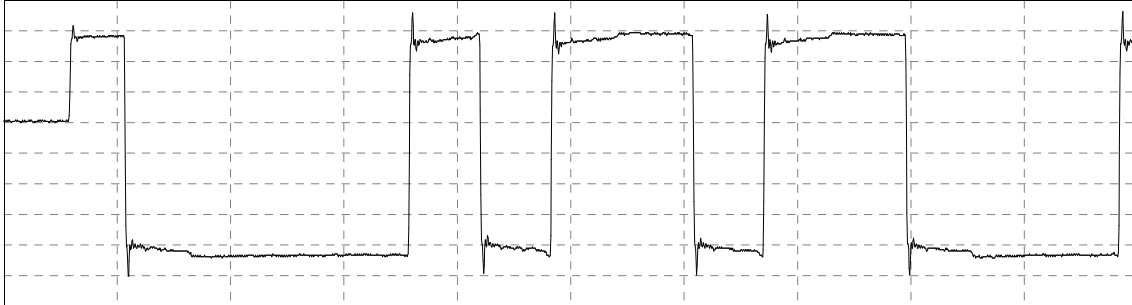
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Segment / Measuring point: Segment of tank 4 / Measuring point at device 3

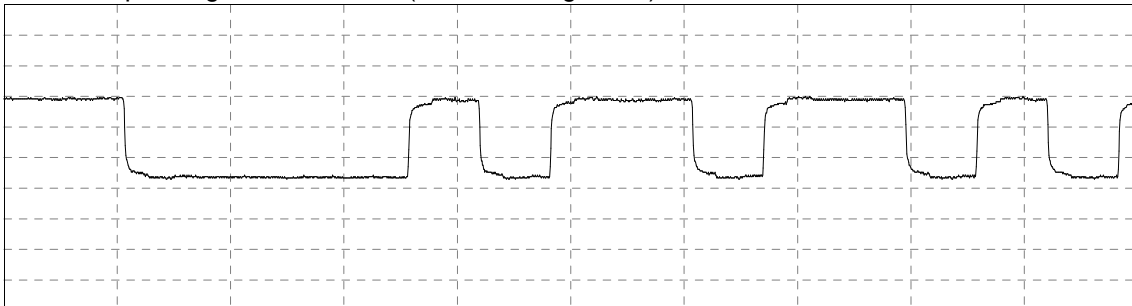
Oscilloscope image of device 36 (AB Diff voltage, Min) :



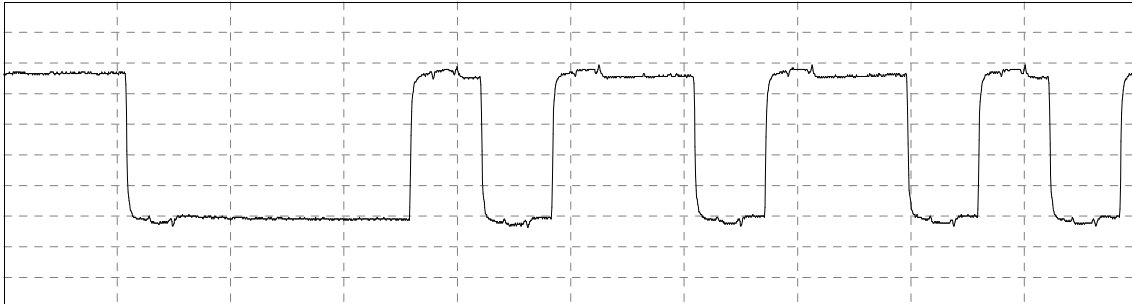
Address: 125
Device name: JK16IDP ACMI
Device type: Slave
Channel: Primary

IdentNo: 696A
 Manufacturer: ACMI
 Model name: Blackbox
 I/O length (bytes): 2 in, 0 out
 Signal voltage: Min: 2.47 V, Max: 4.88 V, Last: 2.49 V
 Diag count while DX: 14
 Total retry count: 63
 Times lost: 13

Oscilloscope image of device 125 (AB Diff voltage, Min) :



Oscilloscope image of device 125 (AB Diff voltage, Max) :



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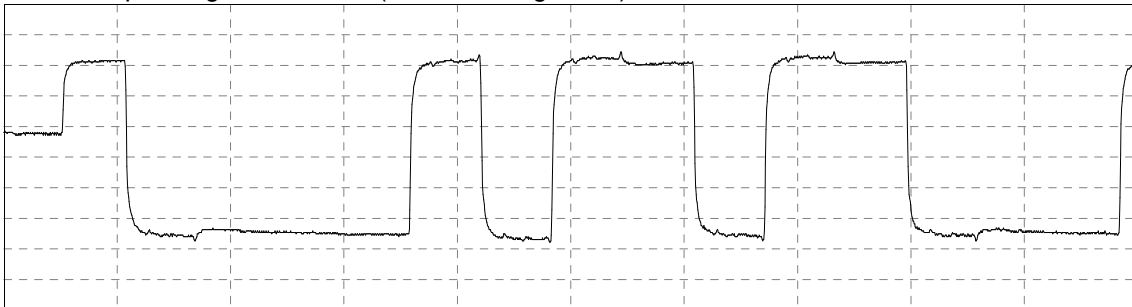
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13.1.2 Measurement point (Measuring point at device 33)

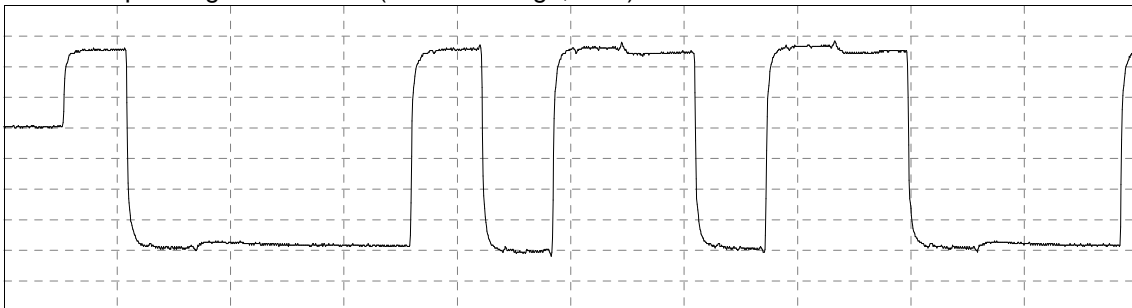
Segment / Measuring point: Segment of tank 4 / Measuring point at device 33

Address: 3
Device name: Master
Device type: Master
Channel: Primary

Oscilloscope image of device 3 (AB Diff voltage, Min) :



Oscilloscope image of device 3 (AB Diff voltage, Max) :



Address: 32
Device name: 750-333 WAGO
Device type: Slave
Channel: Primary

IdentNo: B754
Manufacturer: WAGO Kontakttechnik GmbH
Model name: 750-333 WAGO
I/O length (bytes): 6 in, 1 out
Signal voltage: Min: 5.11 V, Max: 5.34 V, Last: 5.29 V
Diag count while DX: 1
Total retry count: 0
Times lost: 0

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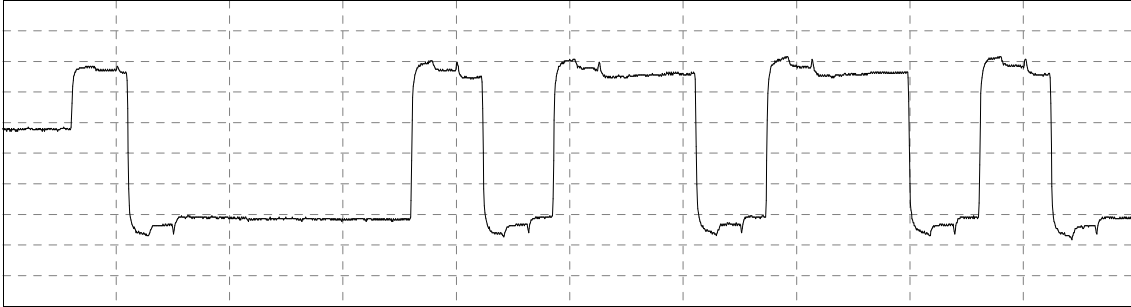
Signature:

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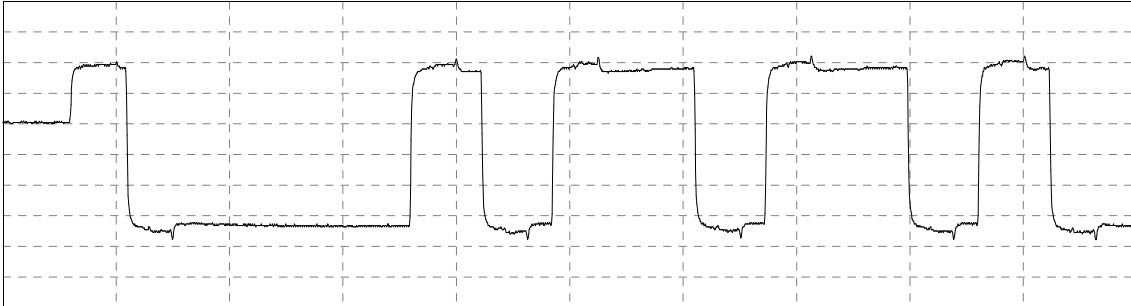
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Segment / Measuring point: Segment of tank 4 / Measuring point at device 33

Oscilloscope image of device 32 (AB Diff voltage, Min) :



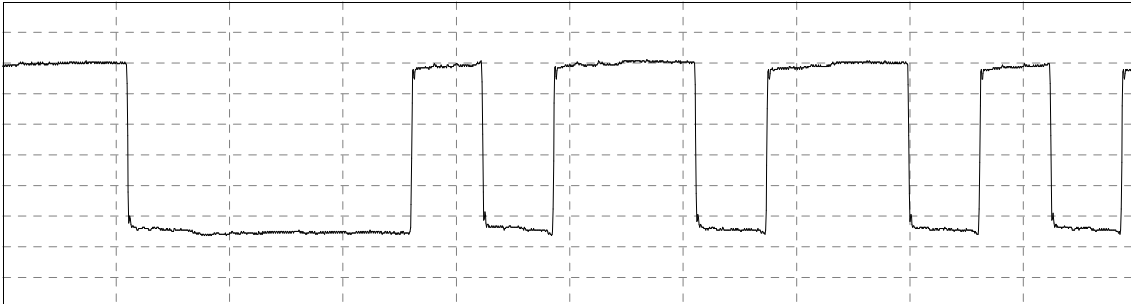
Oscilloscope image of device 32 (AB Diff voltage, Max) :



Address: 33
Device name: GPL-DT4 LGIS
Device type: Slave
Channel: Primary

IdentNo: 07B3
 Manufacturer: LG Industrial Systems Co., Ltd.
 Model name: GPL-DT4 LGIS
 I/O length (bytes): 2 in, 2 out
 Signal voltage: Min: 5.29 V, Max: 5.99 V, Last: 5.43 V
 Diag count while DX: 1
 Total retry count: 0
 Times lost: 0

Oscilloscope image of device 33 (AB Diff voltage, Min) :



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Segment / Measuring point: Segment of tank 4 / Measuring point at device 33

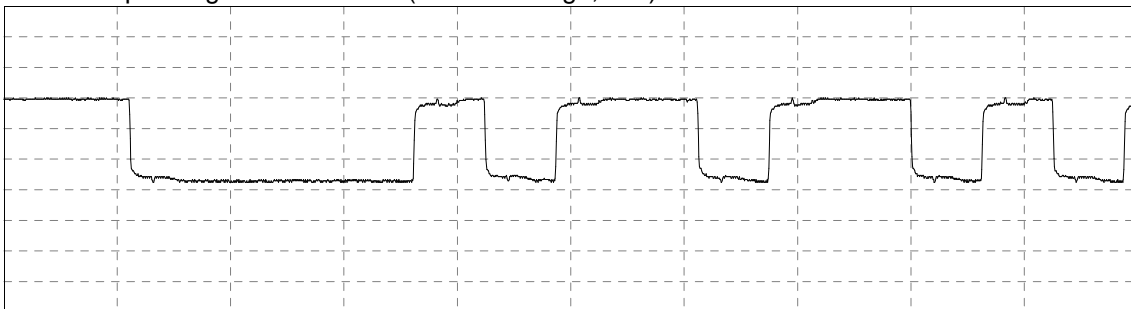
Address: 36
Device name: ET200S SIEMENS
Device type: Slave
Channel: Primary

IdentNo: 806A
Manufacturer: SIEMENS
Model name: ET 200S (IM151)
I/O length (bytes): 1 in, 1 out
Signal voltage: Min: 6.04 V, Max: 6.83 V, Last: 6.80 V
Diag count while DX: 2
Total retry count: 0
Times lost: 0

Address: 125
Device name: JK16IDP ACMI
Device type: Slave
Channel: Primary

IdentNo: 696A
Manufacturer: ACMI
Model name: Blackbox
I/O length (bytes): 2 in, 0 out
Signal voltage: Min: 2.45 V, Max: 2.73 V, Last: 2.46 V
Diag count while DX: 14
Total retry count: 63
Times lost: 13

Oscilloscope image of device 125 (AB Diff voltage, Min) :



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