

**5437 HART DD Menu Tree
As seen in Handterminal**

Online	
1. Primary Variable	87.52 °C
2. Second Variable	75.01 °C
3. Third Variable	100.02 °C
4. Fourth Variable	28.34 °C
5. Loop Current	13.335 mA
6. PV % Range	58.34 %
7. Device Setup	→
8. Process Monitoring	→
9. Review	→
10. Diagnostics/Service	→

10 Diagnostics/Service

1. Device Status
2. Calibration
3. Write Protection
4. SIL Protection
5. Input Logging
6. Input Simulation
7. Runtime Meters
8. Non-linearized values
9. Config Reserved State
10. Cable Resistance
11. Device Reset
12. Configuration reset
13. Loop Test

10.1 Device Status	
1. Update NE107/Suggested Action	
2. NE 107 status	OK
3. Suggested Action	No
4. Device Status	0x00
5. Normal operation 1	0x00
6 Normal operation 2	0x00
7. Critical device errors 1	0x00
8. Critical device errors 2	0x00
9. Critical device errors 3	0x00
10. Critical measuring errors	0x00
11. Extended Device Status	0x00
12. Device Diagnostic Status 0	0x00
13. Device Diagnostic Status 1	0x00

10.2 Calibration	
1. Apply PV Range Values →	
2. Input Calibration →	
3. Input Zero Calibration →	
4. Input Restore Factory Calibration →	
5. Analog Output Calibration →	
6. Analog output restore factory Calibration →	
7. Loop Test →	

10.3 Write Protection	
1. Write Protect/Write enable	
2. Write protect →	
3. New Password	

Enter correct password

SIL Protection	
NoiseFilter	50 Hz
...	...
Parameters OK	
Parameters NOT OK	

10.4 SIL Protection	
1. SIL status	OPEN
2. Enter/Exit SIL Mode	
3. Write protect	No

SIL Protection	
1. SIL status	LOCK
2. Write protect	Write protected
Status OK	
Status Wrong	

10.5 Input Logging

1. Input 1
2. Input 2
3. Input 1 CJC
4. Input 2 CJC
5. Avg I1&I2
6. Diff I1-I2
7. Diff I2-I1
8. Abs diff I1-I2
9. Min I1 or I2
10. Max I1 or I2
11. I1 else I2
12. I2 else I1
13. Avg I1&I2, Backup
14. Min I1 or I2, Backup
15. Max I1 or I2, Backup
16. Electronics temperature

10.6 Input Simulation

1. Enable Input Simulation →
2. Disable Input Simulation →

10.7 Runtime Meters

1. Electronics
2. Input 1
3. Input 2

10.7.1 Electronics	
1. Electronics	
2. Electronics Ranges	

10.7.1.1 Electronics	
1. Electronics	0 s
2. Electronics	0 s
3. Electronics	0 s
4. Electronics	0 s
5. Electronics	8180130 s
6. Electronics	0 s
7. Electronics	0 s
8. Electronics	0 s

10.7.2 Input 1

1. Input 1
2. Input 1 Ranges
3. Runtime max/min log
4. Reset

10.7.1.2 Electronics Ranges	
1. Electronics Treshold 1-2	-50.00 °C
2. Electronics Treshold 2-3	-30.00 °C
3. Electronics Treshold 3-4	-10.00 °C
4. Electronics Treshold 4-5	10.00 °C
5. Electronics Treshold 5-6	30.00 °C
6. Electronics Treshold 6-7	50.00 °C
7. Electronics Treshold 7-8	70.00 °C
8. Electronics Treshold 8-9	85.00 °C

10.7.1.3 Runtime max/min log	
1. Input 1 Minimum	-241.96 °C
2. Input 1 Maximum	1210.05

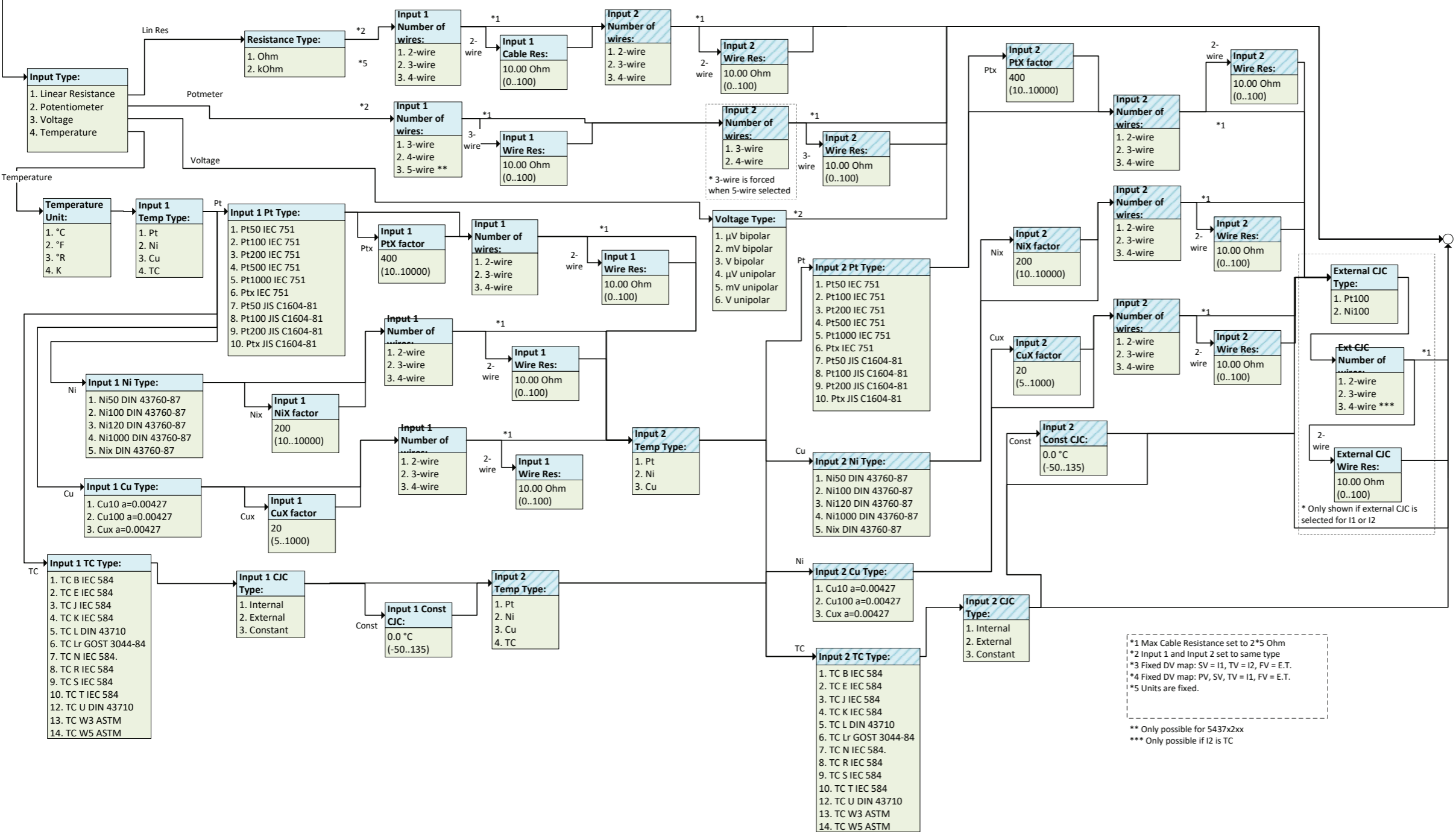
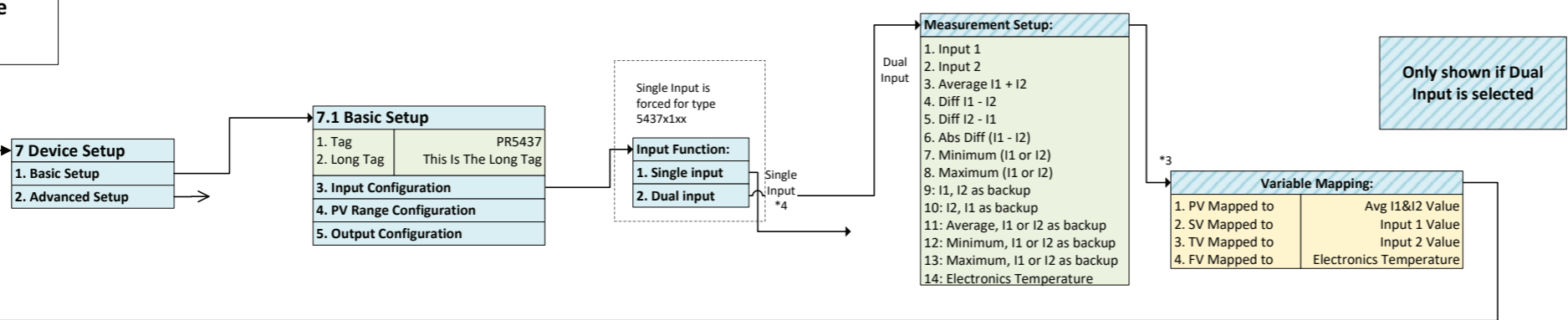
1.3.5.1 Input 1	
1. Device variable min	74.91 °C
2. Device variable max	75.02 °C
3. Reset sensor max/min log	

1.3.5.2 Input 2	
1. Device variable min	99.91 °C
2. Device variable max	100.02 °C
3. Reset sensor max/min log	

1.3.8 Non-linearized values	
1. Input 1 non-linearized value	128.99 Ω
2. Input 2 non-linearized value	138.40 Ω

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1. Basic Setup	
2. Advanced Setup	
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9. Review	
10. Diagnostics/Service	



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7 Device Setup	
1. Basic Setup	
2. Advanced Setup	

HART	
1. Tag	PR5335
2. Long Tag	This Is The Long Tag
3. Descriptor	?
4. Message	?
5. Date	01/01/2012
6. Final asmbly num	0

Total Burst Messages	
1. Total Burst Msgs	3

7.2 Advanced Setup	
1. HART	
2. Burst	
3. Variable Mapping	
4. PV Range Variables	
5. Input 1	
6. Input 2	
7. Damping	
8. Trend	
9. Trend Results	
10. Trim	
11. Output Condition	
12. Sensor Drift Monitor	
13. SIL	
14. Mains Frequency Filter	

7.2.2 Burst	
1. Total Burst Messages	3
2. Burst Configuration 1	
3. Burst Configuration 2	
4. Burst Configuration 3	
5. Event Configuration	
6. Device Status Mask	
7. Dev Spec Status Mask	
8. Ext Dev Status Mask	
9. Dev Diag Status Mask	

7.2.3 Variable Mapping	
1. PV Mapped to	Input 1
2. SV Mapped to	Input 1
3. TV Mapped to	Input 1
4. FV Mapped to	Input 1 CJC

7.2.4 Range Variables	
1. Primary Variable URV	150.000 °C
2. Primary Variable LRV	0.000 °C
3. Primary Variable Upper Sensor Limit	850.00 °C
4. Primary Variable Lower Sensor Limit	-200.00 °C
5. Primary Variable Minimum Span	10.00 °C
6. PV Range Configuration	

Burst Configuration 1	
1. Burst [0] Update Period	8.000 s
2. Burst [0] Max Update Period	60.000 s
3. Burst [0] Command	Cmd 1: PV
4. Burst [0] Mode Select	Off
5. Burst [0] Message Trigger Mode	Continuous
6. Burst [0] Trigger Classification	Device Variable not...
7. Burst [0] Units	°C
8. Burst [0] Level	0
9. Burst [0] Config Variable Codes	

Burst [0] Config Variable Codes	
1. Burst [0] [0]	Input 1
2. Burst [0] [1]	Not used
3. Burst [0] [2]	Not used
4. Burst [0] [3]	Not used
5. Burst [0] [4]	Not used

Burst Configuration 2	
1. Burst [1] Update Period	8.000 s
2. Burst [1] Max Update Period	60.000 s
3. Burst [1] Command	Cmd 1: PV
4. Burst [1] Mode Select	Off
5. Burst [1] Message Trigger Mode	Continuous
6. Burst [1] Trigger Classification	Device Variable not...
7. Burst [1] Units	°C
8. Burst [1] Level	0
9. Burst [1] Config Variable Codes	

Burst [1] Config Variable Codes	
1. Burst [1] [0]	Input 1
2. Burst [1] [1]	Not used
3. Burst [1] [2]	Not used
4. Burst [1] [3]	Not used
5. Burst [1] [4]	Not used

Burst Configuration 3	
1. Burst [0] Update Period	8.000 s
2. Burst [0] Max Update Period	60.000 s
3. Burst [0] Command	Cmd 1: PV
4. Burst [0] Mode Select	Off
5. Burst [0] Message Trigger Mode	Continuous
6. Burst [0] Trigger Classification	Device Variable not...
7. Burst [0] Units	°C
8. Burst [0] Level	0
9. Burst [2] Config Variable Codes	

Burst [2] Config Variable Codes	
1. Burst [2] [0]	Input 1
2. Burst [2] [1]	Not used
3. Burst [2] [2]	Not used
4. Burst [2] [3]	Not used
5. Burst [2] [4]	Not used

Event Configuration	
1. Number of Events Supported	1
2. Status	0x00
3. Notification Control	Off
4. Time First Unack Event Triggered	13:16:57
5. Notification Retry Time	8.000 s
6. Max Update Time	60.000 s
7. Debounce Interval	8.000 s

Device Status Mask	
Primary variable outside the operating limits	Off
Non-primary variable outside operating limits	Off
Analog output outside operating range limits	Off
Analog output in fixed mode	Off
More status available	Off
Cold start occurred	On
Configuration changed	Off
Field device malfunctioned	Off

Device Status Mask	
1. Status Mask	0x80

Extended Device Status Mask	
Maintenance Required	Off
Device Variable Alert	Off
Critical Power Failure	Off

Extended Device Status Mask	
1. Status Mask	0x80



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1. Basic Setup	
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7 Device Setup	
1. Basic Setup	
2. Advanced Setup	

7.2 Advanced Setup	
1. HART	
2. Burst	
3. Variable Mapping	
4. PV Range Variables	
5. Input 1	
6. Input 2	
7. Damping	
8. Trend	
9. Trend Results	
10. Trim	
11. Output Condition	
12. Sensor Drift Monitor	
13. SIL	
14. Mains Frequency Filter	

7.2.5 Input 1 *1	
1. Input 1 Type	Pt1X IEC 751
2. Input 1 RTD factor	100.00
3. Input 1 Number Of Wires	3-wire
4. Input 1 Units	°C
5. Input 1 Lower Sensor Limit	-200.00 °C
6. Input 1 Upper Sensor Limit	850.00 °C
7. Input 1 Minimum Span	10.00 °C
8. Input 1 Damp	0.00 s
Input 1 Snsr s/n	0
Input 1 CJC Type	
Input 1 Manual CJC Temperature	
I1 CJC	
Input 1 Custom	

Input 1 CJC Setup	
1. Input 1 CJC Units	°C
2. Input 1 CJC Lower Sensor Limit	-40.00 °C
3. Input 1 CJC Upper Sensor Limit	100.00 °C
4. Input 1 CJC Minimum Span	10.00 °C
5. Input 1 CJC Damp	0.00 s

Input 1 Custom	
1. Input 1 Linearization Type	Table
2. Input 1 Input Type	Resistance
3. Input 1 Snsr S/n	0
4. Input 1 CvD	
5. Input 1 Table	
6. Input 1 Spline	

Input 1 CvD	
1. Input 1 R0	100 ohm
2. Input 1 A	0.003908
3. Input 1 B	-5.775e-007
4. Input 1 C	-4.183e-012
5. Input 1 Alpha	0.0038503
6. Input 1 Beta	0.10548
7. Input 1 Delta	1.4562

Input 1 Table	
1. Input 1 Number Of Points	1
2. Input 1 Point X1	100
3. Input 1 Point Y1	0
5. Input 1 Point X2	0
6. Input 1 Point Y2	0
6. Input 1 Point X3	1
7. Input 1 Point Y3	0
8. Input 1 Point X4	0
9. Input 1 Point Y4	0
Input 1 Point X5	100
Input 1 Point Y5	0
Input 1 Point X6	0
Input 1 Point Y6	0
Input 1 Point X7	1
Input 1 Point Y7	0
Input 1 Point X8	0
Input 1 Point Y8	0
Input 1 Point X9	100
Input 1 Point Y9	0
Input 1 Point X10	0
Input 1 Point Y10	0
Input 1 Point X11	1
Input 1 Point Y11	0
Input 1 Point X12	0
Input 1 Point Y12	0
Input 1 Point X13	100
Input 1 Point Y13	0
Input 1 Point X14	0
Input 1 Point Y14	0
Input 1 Point X15	1
Input 1 Point Y15	0
Input 1 Point X16	0
Input 1 Point Y16	0
Input 1 Point X17	100
Input 1 Point Y17	0
Input 1 Point X18	0
Input 1 Point Y18	1
Input 1 Point X19	0
Input 1 Point Y19	0
Input 1 Point X20	0
Input 1 Point Y20	100
Input 1 Point X21	0
Input 1 Point Y21	0
Input 1 Point X22	0
Input 1 Point Y22	1
Input 1 Point X23	0
Input 1 Point Y23	0
Input 1 Point X24	0
Input 1 Point Y24	100
Input 1 Point X25	0
Input 1 Point Y25	0

Input 2 *1	
1. Input 2 Type	None
2. Input 2 RTD factor	1.00
3. Input 2 Number Of Wires	3-wire
4. Input 2 Units	°C
5. Input 2 Lower Sensor Limit	0.00 °C
6. Input 2 Upper Sensor Limit	0.00 °C
7. Input 2 Minimum Span	0.00 °C
8. Input 2 Damp	0.00 s
9. Input 2 CJC Type	
Input 2 Manual CJC Temperature	0.00 °C
Input 2 Manual CJC Temperature Units	°C
Input 2 Cable Resistance Value	10.00 ohm
Input 2 Cable Resistance in 3rd wire	0.00 ohm
Input 2 Cable Resistance in 4th wire	0.00 ohm
Input 2 Snsr s/n	0
Input 2 CJC Setup	
Input 2 Custom	

Input 2 Table	
1. Input 2 Number Of Points	1
2. Input 2 Point X1	100
3. Input 2 Point Y1	0
4. Input 2 Point X2	0
5. Input 2 Point Y2	0
6. Input 2 Point X3	1
7. Input 2 Point Y3	0
8. Input 2 Point X4	0
9. Input 2 Point Y4	0
Input 2 Point X5	100
Input 2 Point Y5	0
Input 2 Point X6	0
Input 2 Point Y6	0
Input 2 Point X7	1
Input 2 Point Y7	0
Input 2 Point X8	0
Input 2 Point Y8	0
Input 2 Point X9	100
Input 2 Point Y9	0
Input 2 Point X10	0
Input 2 Point Y10	0
Input 2 Point X11	1
Input 2 Point Y11	0
Input 2 Point X12	0
Input 2 Point Y12	0
Input 2 Point X13	100
Input 2 Point Y13	0
Input 2 Point X14	0
Input 2 Point Y14	0
Input 2 Point X15	1
Input 2 Point Y15	0
Input 2 Point X16	0
Input 2 Point Y16	0
Input 2 Point X17	100
Input 2 Point Y17	0
Input 2 Point X18	0
Input 2 Point Y18	1
Input 2 Point X19	0
Input 2 Point Y19	0
Input 2 Point X20	0
Input 2 Point Y20	100
Input 2 Point X21	0
Input 2 Point Y21	0
Input 2 Point X22	0
Input 2 Point Y22	1
Input 2 Point X23	0
Input 2 Point Y23	0
Input 2 Point X24	0
Input 2 Point Y24	100
Input 2 Point X25	0
Input 2 Point Y25	0

Input 2 CJC Setup	
1. Input 2 CJC Units	°C
2. Input 2 CJC Lower Sensor Limit	-40.00 °C
3. Input 2 CJC Upper Sensor Limit	135.00 °C
4. Input 2 CJC Minimum Span	10.00 °C
5. Input 2 CJC Damp	0.00 s

Input 2 CvD	
1. Input 2 R0	100 ohm
2. Input 2 A	0.003908
3. Input 2 B	-5.775e-007
4. Input 2 C	-4.183e-012
5. Input 2 Alpha	0.0038503
6. Input 2 Beta	0.10548
7. Input 2 Delta	1.4562

Input 2 Custom	
1. Input 2 Linearization Type	Table
2. Input 2 Input Type	Resistance
3. Input 2 Snsr S/n	0
3. Input 2 CvD	
4. Input 2 Table	
5. Input 2 Spline	

Input 1 Spline	
1. Input 1 Minimum Sensor Limit	0
2. Input 1 Maximum Sensor Limit	0
3. Input 1 Number of Points	1
4. Input 1 Point Y1	100
5. Input 1 Point Y2	0
6. Input 1 Point Y3	0
7. Input 1 Point Y4	0
8. Input 1 Point Y5	1
9. Input 1 Point Y6	0
Input 1 Point Y7	0
Input 1 Point Y8	0
Input 1 Point Y9	100
Input 1 Point Y10	0
Input 1 Point Y11	0
Input 1 Point Y12	0
Input 1 Point Y13	0
Input 1 Point Y14	1
Input 1 Point Y15	0
Input 1 Point Y16	0
Input 1 Point Y17	100
Input 1 Point Y18	0
Input 1 Point Y19	0
Input 1 Point Y20	0
Input 1 Point Y21	1
Input 1 Point Y22	0
Input 1 Point Y23	0
Input 1 Point Y24	0
Input 1 Point Y25	100

Input 2 Spline	
1. Input 1 Minimum Sensor Limit	0
2. Input 1 Maximum Sensor Limit	0
3. Input 1 Number of Points	1
4. Input 1 Point Y1	100
5. Input 1 Point Y2	0
6. Input 1 Point Y3	0
7. Input 1 Point Y4	0
8. Input 1 Point Y5	1
9. Input 1 Point Y6	0
Input 1 Point Y7	0
Input 1 Point Y8	0
Input 1 Point Y9	100
Input 1 Point Y10	0
Input 1 Point Y11	0
Input 1 Point Y12	0
Input 1 Point Y13	1
Input 1 Point Y14	0
Input 1 Point Y15	0
Input 1 Point Y16	0
Input 1 Point Y17	100
Input 1 Point Y18	0
Input 1 Point Y19	0
Input 1 Point Y20	0
Input 1 Point Y21	1
Input 1 Point Y22	0
Input 1 Point Y23	0
Input 1 Point Y24	0
Input 1 Point Y25	100

*1 Content depend on several parameters but especially Input type. Start choosing that and presse send to have the menu updated accordingly



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10. Diagnostics/Service	

7 Device Setup
1. Basic Setup
2. Advanced Setup

7.2.7 Damping	
1. Avg I2 & I2 Damp	0.00 s
2. Diff I1 – I2 Damp	0.00 s
3. Diff I2 – I1 Damp	0.00 s
4. Abs diff I1 – I2 Damp	0.00 s
5. Min I1 or I2 Damp	0.00 s
6. Max I1 or I2 Damp	0.00 s
7. I1 else I2 Damp	0.00 s
8. I2 else I1 Damp	0.00 s
9. Avg I1 & I2 backup	0.00 s
10. Min I1 or I2 backup	0.00 s
11. Max I1 or I2 backup	0.00 s
12. Electronic Temperature	0.00 s

7.2 Advanced Setup
1. HART
2. Burst
3. Variable Mapping
4. PV Range Variables
5. Input 1
6. Input 2
7. Damping
8. Trend
9. Trend Results
10. Trim
11. Output Condition
12. Sensor Drift Monitor
13. SIL
14. Mains Frequency Filter

7.2.8 Trend Setup	
1. Number of Trends 2. Supported	1
3. Real Time Clock Flags	0x02
4. Current Date	01/01/1900
5. Current Time	00:00:36
6. Trend Control	Disable
7. Trend Device Variable	Input 1
8. Trend Sample Interval	00:00:10
9. Trend 0 Date Stamp	00/00/1900
10. Trend 0 TIME Stamp	00:00:00
11. Set Real Time Clock	

7.2.9 Trend Results	
Trend array [0][0]	12.82
Trend array [0][0]	Good
Trend array [0][0]	Not limited
...	...
Trend array [0][11]	12.85
Trend array [0][11]	Good
Trend array [0][11]	Not limited
Update Trend Results	

Trim Setup	
1. Input Calibration	
2. Input Zero Calibration	
3. Restore Factory Calibration	
4. Input 1 Trim	
5. Input 2 Trim	

Input 1 Trim	
1. Input 1 Lower Trim Point Value	-200.00 °C
2. Input 1 Upper Trim Point Value	850.00 °C
3. Input 1 Trim Point Support	Lower and upper trim point supported
4. Input 1 Minimum Lower Trim Point Value	0.00 °C
5. Input 1 Maximum Lower Trim Point Value	140.00 °C
6. Input 1 Minimum Upper Trim Point Value	10.00 °C
8. Input 1 Maximum Upper Trim Point Value	150.00 °C
9. Input 1 Minimum Differential Trim	10.00 °C

Input 2 Trim	
1. Input 2 Lower Trim Point Value	-200.00 °C
2. Input 2 Upper Trim Point Value	850.00 °C
3. Input 2 Trim Point Support	Lower and upper trim point supported
4. Input 2 Minimum Lower Trim Point Value	0.00 °C
5. Input 2 Maximum Lower Trim Point Value	150.00 °C
6. Input 2 Minimum Upper Trim Point Value	10.00 °C
8. Input 2 Maximum Upper Trim Point Value	150.00 °C
9. Input 2 Minimum Differential Trim	10.00 °C

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1. Basic Setup
2. Advanced Setup

7.2 Advanced Setup
1. HART
2. Burst
3. Variable Mapping
4. PV Range Variables
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8. Trend
9. Trend Results
10. Trim
11. Output Condition
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7.2.11.1 Analog Output	
1. Loop Current	23.000 mA
2. Loop Current Mode	Enabled
3. Output Configuration	
4. Loop Test	
5. Analog Output Calibration	
6. Restore Factory AO Calibration	
7. Output Range	
8. Snsr Error Values	
9. Input/Output limits	

Output Range	
1. AO 0%	4.00 mA
2. AO 100%	20.00 mA
3. AO Lower Limit	3.80 mA
4. AO Upper Limit	20.50 mA
5. Set Limits to NAMUR	

Sensor Error Values	
1. Error Detection	No Test Performed
2. Broken Sensor	
3. Shorted Sensor	

7.2.11 Output Condition
1. Analog Output
2. HART Output

7.2.12 Sensor Drift Monitor Setup	
1. Sensor Drift Config Code	Disabled
2. Sensor Drift Limit	1.00 mA
3. Sensor Drift Timeout	10 s
4. Sensor Drift Output	22.00 mA

Broken Sensor	
1. Broken Sensor Value	3.5 mA
2. Set to NAMUR Downscale	
3. Set to NAMUR Upscale	

Shorted Sensor	
1. Shorted Sensor Value	3.5 mA
2. Set to NAMUR Downscale	
3. Set to NAMUR Upscale	

Input/Output limits	
1. Limit check configuration	
2. Output limit error value	23mA
3. Input limit error value	22mA
4. Input 1 Lower limit	-20 °C
5. Input 1 Upper limit	170 °C
6. Input 2 Lower Limit	-20 °C
7. Input 2 Upper Limit	170 °C

Limit check configuration	
Input: No, Output No	
Input: Yes, Output No	
Input: No, Output Yes	
Input: Yes, Output Yes	

7.2.14 Mains Frequency Filter	
1. Mains Noise Suppression Frequency Code	50 Hz noise sup...

7.2.11.2 HART Output	
1. Loop Current Mode	Enabled
2. Poll Addr	0
3. Num Req Preams	5
4. Num Resp Preams	5

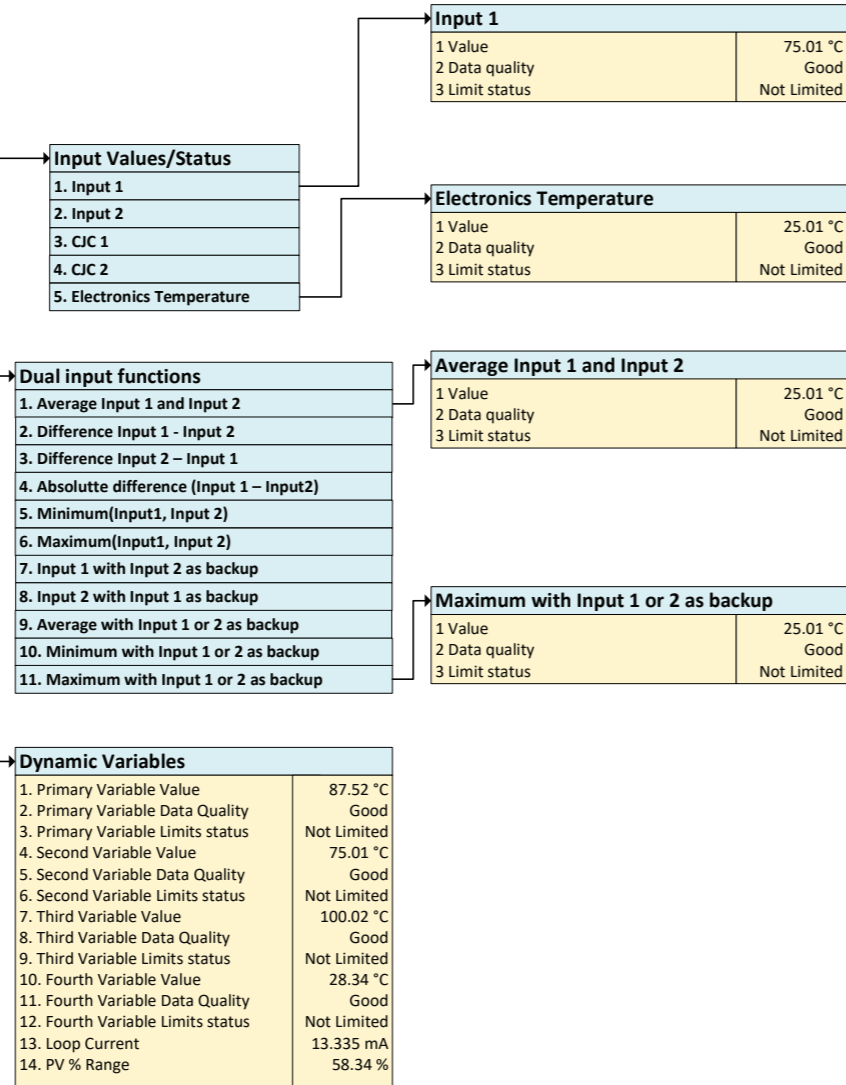


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8. Process Monitoring	
1. Input Values/Status	
2. Dual input functions	
3. Dynamic Variables	
4. Gauge	
5. Chart	

Gauge and Chart shows graphical representation of the digital values



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10. Diagnostics/Service	

9. Review	
1. Input Information	
2. Output info	
3. Dev Info Review	
4. Sensor limits	
5. Sensor limits	V2R24

9.1 Input Information	
1. Input 1 Info	
2. Input 2 Info	
3. Ext CJC Info	
4. Avg I1 & I2 Info	
5. Diff I1-I2 Info	
6. Diff I2-I1 Info	
7. Abs Diff I1-I2 Info	
8. Min I1 I2 Info	
9. Max I1 I2 Info	
10. I1 Else I2 Info	
11. I2 Else I1 Info	
12. Avg I1&I2 Backup Info	
13. Min I1&I2 Backup Info	
14. Max I1&I2 Backup Info	
15. Electronics Temp Info	

9.1.1 Input 1 Info	
1. Input 1 Value	-0.03 degC
2. Input 1 Unit	degC
3. Input 1 Data quality	Good
4. Input 1 Limit status	Not limited
5. Input 1 Family status	None
6. Input 1 Snsr s/n	1
7. Input 1 LSL	-200 degC
8. Input 1 USL	850 degC
9. Input 1 Min span	10 degC
10. Input 1 Damp	0.00 s
11. Input 1 Class	Device variable no class
12. Input 1 Device family	Temperature
13. Input 1 Upd Period	0.100 s
14. Input 1 L Trim	0.00 degC
15. Input 1 U Trim	0.00 degC
16. Input 1 Trim Support	Lower and upper trim points supported
17. Input 1 Min L Trim	-200 degC
18. Input 1 Max L Trim	840 degC
19. Input 1 Min U Trim	-190 degC
20. Input 1 Max U Trim	850 degC
21. Input 1 Min Diff Trim	10 degC
22. Input 1 Input type	Pt100 IEC 751
23. Input 1 Num Wires	4-wire
24. Input 1 Temp Std	ITS-90
25. Input 1 Lower limit	-200.00 degC
26. Input 1 Upper limit	850.00 degC
27. Input 1 Cbl res 1.W	0.07 ohm
28. Input 1 Cbl res 2.W	0.09 ohm
29. I1 CJC Info	

9.1.1.29 I1 CJC Info	
1. Input 1 CJC Value	-9999999.00 degC
2. Input 1 CJC Unit	degC
3. Input 1 CJC Data quality	Bad
4. Input 1 CJC Limit status	Constant
5. Input 1 CJC Family status	None
6. Input 1 CJC Snsr s/n	0
7. Input 1 CJC LSL	-51 degC
8. Input 1 CJC USL	136 degC
9. Input 1 CJC Min span	10 degC
10. Input 1 CJC Class	Device variable not classified
11. Input 1 CJC Device family	Temperature
12. Input 1 CJC Upd Period	134217.734 s

9.4 Sensor Limits	
1. Input 1 USL	850.00 degC
2. Input 1 LSL	-200.00 degC
3. Input 1 Min span	10.00 degC
4. Input 2 USL	850.00 degC
...	
Electronics Temperatur USL	100 degC
Electronics Temperature LSL	-50 degC
Electronics Temperature Min Span	10.00 degC

9.3 Dev Info Review	
1. Manufacturer	PR electronics
2. Model	PR 5437
3. Device type name	5437L2
4. Device Serial Num	171405026
5. Tag	5437
6. Long tag	
7. Descriptor	
8. Message	
9. Date	03/12/2018
10 Write protect	No
11. SIL supported	Yes
12 Cfg chng count	6807
...	
Hardware rev	10
Software rev	10
Universel rev	7
Fld dev rev	2
Primary sensor error	OFF
....	
Electronic failure	OFF
Device configuration locked	OFF

9.2 Output Info	
1. Output Range 0%	4.00 mA
2. Output Range 100%	20.00 mA
3. Output Lower Limit	3.80 mA
4. Output Upper Limit	20.5 mA
5. Sensor Error Action	Broken and shorted sensor
6. Broken Snsr Value	23.0 mA
7. Shorted Snsr Value	23.0 mA
8. Limit check config	Input: Yes, Output: Yes
9. Input limit error value	23 mA
10. Output limit error value	22mA
11. Loop current mode	Enabled

5437 HART DD Menu Tree
As seen in Handterminal

Online	
1. Primary Variable	87.52 °C
2. Second Variable	75.01 °C
3. Third Variable	100.02 °C
4. Fourth Variable	28.34 °C
5. Loop Current	13.335 mA
6. PV % Range	58.34 %
7. Device Setup	
8. Process Monitoring	
9. Review	
10. Diagnostics/Service	

10 Diagnostics/Service	
1. Status	→
2. Calibration	→
3. Write Protection	→
4. SIL Protection	→
5. Input Logging	→
6. Input Simulation	→
7. Runtime Meters	→
8. Non-linearized values	→
9. Config Reserved State	→
10. Cable Resistance	→
11. Device Reset	→
12. Configuration reset	→
13. Loop Test	→

10.1 Device status	
1. Update NE107/Suggested Action	
2. NE 107 status	OK
3. Suggested Action	None
4. Device status	0x00
5. Normal operation 1	0x00
6. Normal operation 2	0x00
7. Critical device errors 1	0x00
8. Critical device errors 2	0x00
9. Critical device errors 3	0x00
10. Critical measuring errors	0x00
11. Extended Device Status	0x00
12. Standardized Status 0	0x00
13. Standardized Status 1	0x00

10.2	
1. Apply PV Range Values	→
2. Input Calibration	→
3. Input Zero Calibration	→
4. Input Restore Factory Calibration	→
5. Analog Output Calibration	→
6. Analog output restore factory calibration	→
7. Loop Test	→

10.7.1	
1. Electronics Treshold 1-2	-50.00 °C
2. Electronics Treshold 2-3	-30.00 °C
3. Electronics Treshold 3-4	-10.00 °C
4. Electronics Treshold 4-5	10.00 °C
5. Electronics Treshold 5-6	30.00 °C
6. Electronics Treshold 6-7	50.00 °C
7. Electronics Treshold 7-8	70.00 °C
8. Electronics Treshold 8-9	85.00 °C

10.7.2 Input 1	
1. Input 1 Treshold 1-2	-200.00 °C
2. Input 1 Treshold 2-3	-50.00 °C
3. Input 1 Treshold 3-4	100.00 °C
4. Input 1 Treshold 4-5	250.00 °C
5. Input 1 Treshold 5-6	400.00 °C
6. Input 1 Treshold 6-7	550.00 °C
7. Input 1 Treshold 7-8	700.00 °C
8. Input 1 Treshold 8-9	850.00 °C

10.7.3 Input 2	
1. Input 2 Treshold 1-2	-200.00 °C
2. Input 2 Treshold 2-3	-50.00 °C
3. Input 2 Treshold 3-4	100.00 °C
4. Input 2 Treshold 4-5	250.00 °C
5. Input 2 Treshold 5-6	400.00 °C
6. Input 2 Treshold 6-7	550.00 °C
7. Input 2 Treshold 7-8	700.00 °C
8. Input 2 Treshold 8-9	850.00 °C

10.5	
1. Input 1	→
2. Input 2	→
3. Input 1 CJC	→
4. Input 2 CJC	→
5. Avg I1&I2	→
6. Diff I1-I2	→
7. Diff I2-I1	→
8. Abs diff I1-I2	→
9. Min I1 or I2	→
10. Max I1 or I2	→
11. I1 else I2	→
12. I2 else I1	→
13. Avg I1&I2, Backup	→
14. Min I1 or I2, Backup	→
15. Max I1 or I2, Backup	→
16. Electronics temperature	→

10.3 Write Protection	
1. Write Protect/Write enable	→
2. Write protect	→
3. New Password	→

10.6 Input Simulation	
1. Enable Input Simulation	→
2. Disable Input Simulation	→

10.7 Runtime Meters	
1. Electronics	→
2. Input 1	→
3. Input 2	→

10.8 Non-linearized values	
1. Input 1 non-linearized value	128.99 Ω
2. Ω	138.40 Ω
3. Input 2 non-linearized value	
4. Ω	

10.5.1 Input 1	
1. Device variable min	74.91 °C
2. Device variable max	75.02 °C
3. Reset sensor max/min log	→

10.5.2 Input 2	
1. Device variable min	99.91 °C
2. Device variable max	100.02 °C
3. Reset sensor max/min log	→

10.4 SIL Protection	
1. SIL status	OPEN
2. Write protect	Not write protected
1. Enter SIL Mode	→
2. Exit SIL Mode	→

Enter correct password

Enter correct password

Enter new password

SIL Protection	
NoiseFilter	50 Hz
Parameters OK	→
Parameters NOT OK	→

SIL Protection	
1. SIL status	LOCK
2. Write protect	Write protected
Status OK	→
Status Wrong	→

