Analytics Integration Test - Analog Tags

Test report with analog tags, trend lines, and SPC charts

Report Period: 1/1/2024, 11:00:00 AM - 1/1/2024, 1:00:00 PM

Generated:	1/22/2026, 6:43:48 PM	**Data Points:**	200
Tags:	TEMP_01, PRESSURE_01	**Format:**	PDF

Executive Summary

This report analyzes 2 tag(s) over the specified time period, containing a total of 200 data points. The analysis includes statistical summaries, trend analysis, and data quality metrics.

Key Findings:
• TEMP_01: Average 74.87, Range 50.85 - 95.03, Data Quality 100.0%
• PRESSURE_01: Average 99.66, Range 51.13 - 147.62, Data Quality 100.0%

Tag: TEMP_01

Data Points: 100
Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:39:00 PM

Statistical Summary:
Minimum: 50.85
Maximum: 95.03
Average: 74.87
Standard Deviation: 5.00
Data Quality: 100.0%

Data Quality Breakdown:
Good Quality: 100 (100.0%)
Bad Quality: 0 (0.0%)
Uncertain Quality: 0 (0.0%)

Tag: PRESSURE_01

Data Points: 100
Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:39:00 PM
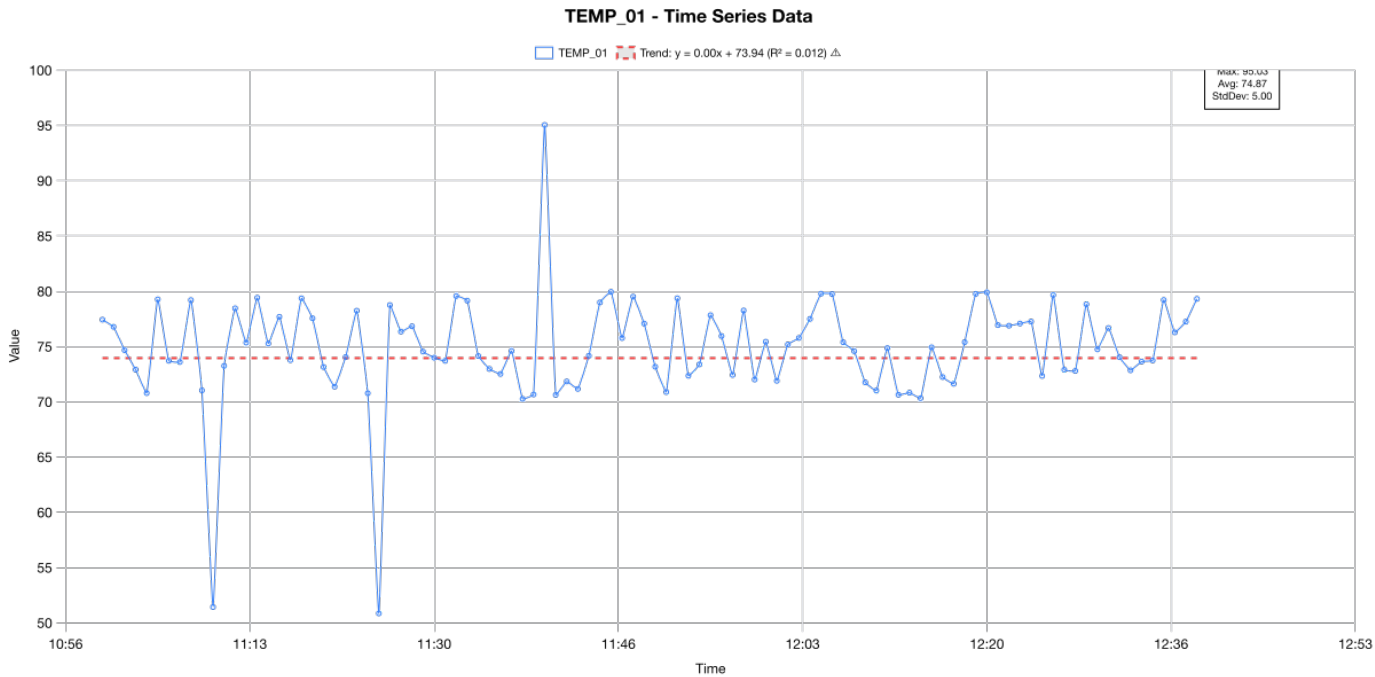
Statistical Summary:
Minimum: 51.13
Maximum: 147.62
Average: 99.66
Standard Deviation: 10.00
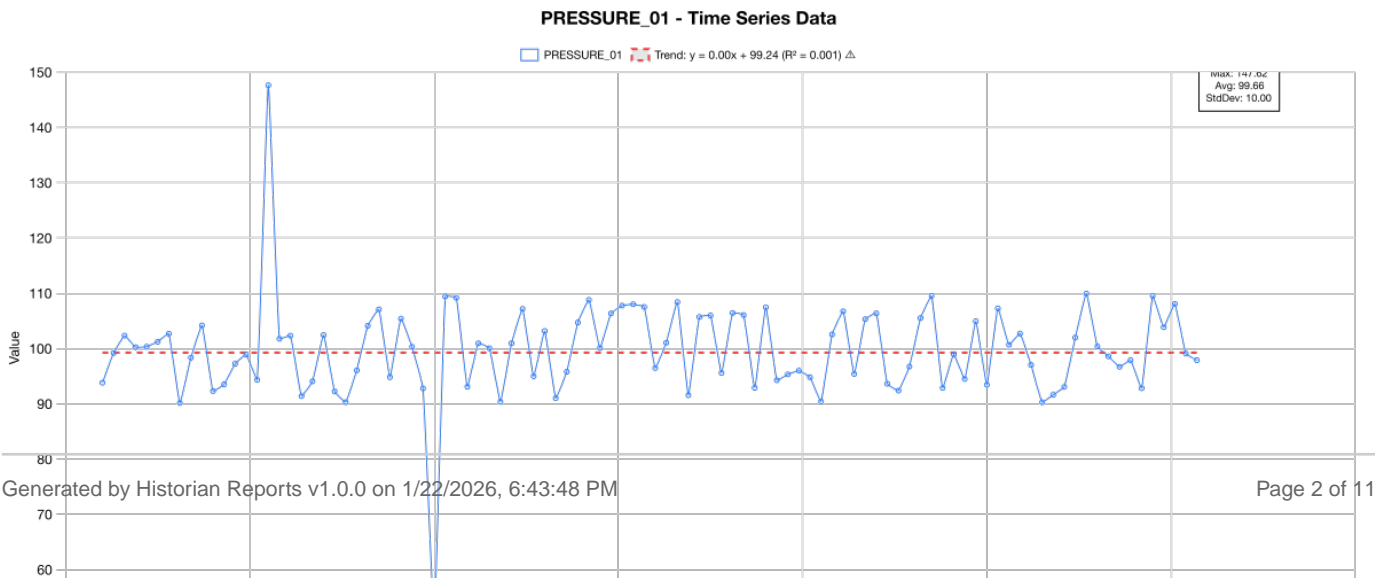Data Quality: 100.0%

Data Quality Breakdown:
Good Quality: 100 (100.0%)
Bad Quality: 0 (0.0%)
Uncertain Quality: 0 (0.0%)

Data Visualizations

TEMP_01 - Data Trend

PRESSURE_01 - Data Trend

Statistical Process Control Analysis

Data Visualizations

TEMP_01 - SPC Chart

TEMP_01 - Statistical Process Control Chart
σ = 4.91 | Cp = 0.68, Cpk = 0.67

PRESSURE_01 - SPC Chart

PRESSURE_01 - Statistical Process Control Chart
σ = 9.00 | Cp = 0.74, Cpk = 0.73
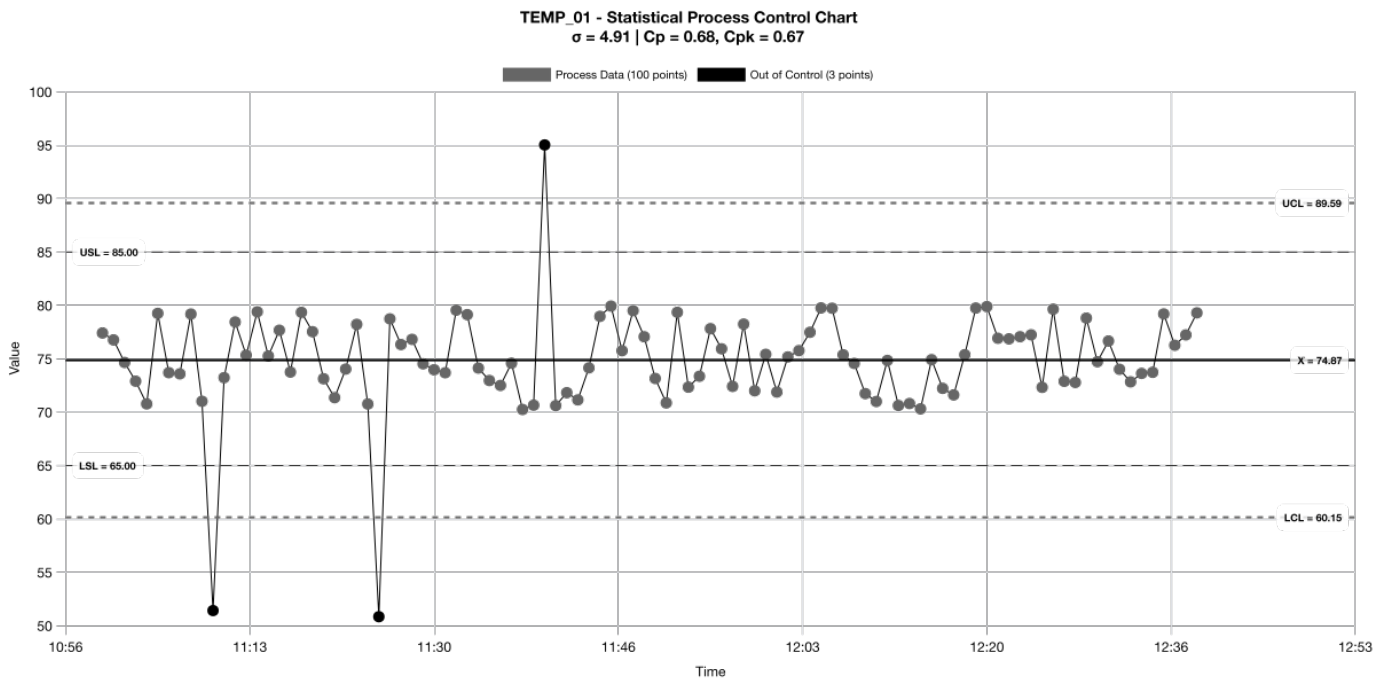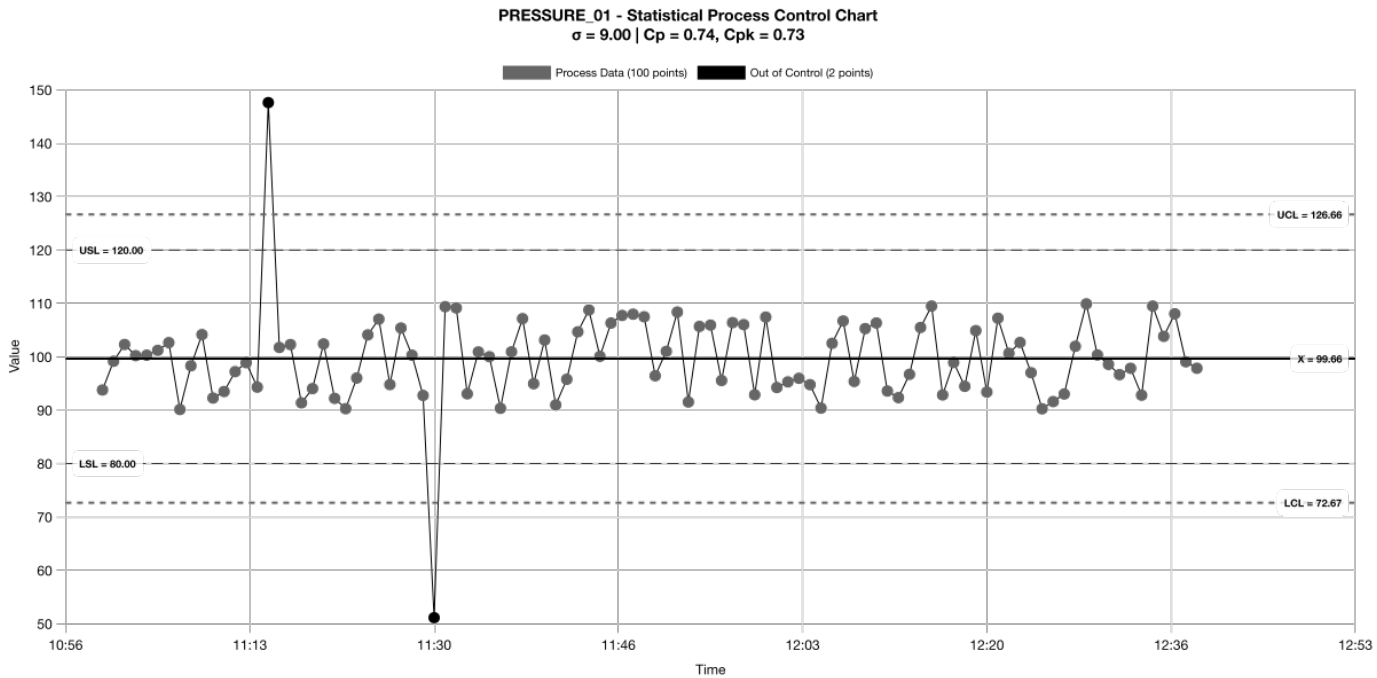
SPC Metrics Summary

Tag Name	Mean	StdDev	LSL	USL	Cp	Cpk	Capability
TEMP_01	74.87	4.91	65.00	85.00	0.68	0.67	Not Capable
PRESSURE_01	99.66	9.00	80.00	120.00	0.74	0.73	Not Capable

Data Table: TEMP_01

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	77.42	192	Good
1/1/2024, 11:01:00 AM	76.77	192	Good
1/1/2024, 11:02:00 AM	74.66	192	Good
1/1/2024, 11:03:00 AM	72.90	192	Good
1/1/2024, 11:04:00 AM	70.78	192	Good
1/1/2024, 11:05:00 AM	79.26	192	Good
1/1/2024, 11:06:00 AM	73.70	192	Good
1/1/2024, 11:07:00 AM	73.59	192	Good
1/1/2024, 11:08:00 AM	79.19	192	Good
1/1/2024, 11:09:00 AM	71.02	192	Good
1/1/2024, 11:10:00 AM	51.42	192	Good
1/1/2024, 11:11:00 AM	73.24	192	Good
1/1/2024, 11:12:00 AM	78.45	192	Good
1/1/2024, 11:13:00 AM	75.34	192	Good
1/1/2024, 11:14:00 AM	79.40	192	Good
1/1/2024, 11:15:00 AM	75.26	192	Good
1/1/2024, 11:16:00 AM	77.68	192	Good
1/1/2024, 11:17:00 AM	73.76	192	Good
1/1/2024, 11:18:00 AM	79.35	192	Good
1/1/2024, 11:19:00 AM	77.54	192	Good
1/1/2024, 11:20:00 AM	73.13	192	Good
1/1/2024, 11:21:00 AM	71.36	192	Good
1/1/2024, 11:22:00 AM	74.04	192	Good
1/1/2024, 11:23:00 AM	78.23	192	Good
1/1/2024, 11:24:00 AM	70.76	192	Good
1/1/2024, 11:25:00 AM	50.85	192	Good
1/1/2024, 11:26:00 AM	78.74	192	Good
1/1/2024, 11:27:00 AM	76.34	192	Good
1/1/2024, 11:28:00 AM	76.82	192	Good
1/1/2024, 11:29:00 AM	74.53	192	Good
1/1/2024, 11:30:00 AM	73.97	192	Good
1/1/2024, 11:31:00 AM	73.69	192	Good
1/1/2024, 11:32:00 AM	79.55	192	Good

1/1/2024, 11:33:00 AM	79.14	192	Good
1/1/2024, 11:34:00 AM	74.13	192	Good
1/1/2024, 11:35:00 AM	72.96	192	Good
1/1/2024, 11:36:00 AM	72.51	192	Good
1/1/2024, 11:37:00 AM	74.59	192	Good
1/1/2024, 11:38:00 AM	70.25	192	Good
1/1/2024, 11:39:00 AM	70.65	192	Good
1/1/2024, 11:40:00 AM	95.03	192	Good
1/1/2024, 11:41:00 AM	70.61	192	Good
1/1/2024, 11:42:00 AM	71.83	192	Good
1/1/2024, 11:43:00 AM	71.15	192	Good
1/1/2024, 11:44:00 AM	74.15	192	Good
1/1/2024, 11:45:00 AM	78.98	192	Good
1/1/2024, 11:46:00 AM	79.94	192	Good
1/1/2024, 11:47:00 AM	75.76	192	Good
1/1/2024, 11:48:00 AM	79.50	192	Good
1/1/2024, 11:49:00 AM	77.07	192	Good
1/1/2024, 11:50:00 AM	73.16	192	Good
1/1/2024, 11:51:00 AM	70.87	192	Good
1/1/2024, 11:52:00 AM	79.35	192	Good
1/1/2024, 11:53:00 AM	72.34	192	Good
1/1/2024, 11:54:00 AM	73.37	192	Good
1/1/2024, 11:55:00 AM	77.82	192	Good
1/1/2024, 11:56:00 AM	75.94	192	Good
1/1/2024, 11:57:00 AM	72.42	192	Good
1/1/2024, 11:58:00 AM	78.25	192	Good
1/1/2024, 11:59:00 AM	72.00	192	Good
1/1/2024, 12:00:00 PM	75.42	192	Good
1/1/2024, 12:01:00 PM	71.89	192	Good
1/1/2024, 12:02:00 PM	75.17	192	Good
1/1/2024, 12:03:00 PM	75.76	192	Good
1/1/2024, 12:04:00 PM	77.48	192	Good
1/1/2024, 12:05:00 PM	79.77	192	Good
1/1/2024, 12:06:00 PM	79.73	192	Good
1/1/2024, 12:07:00 PM	75.37	192	Good

1/1/2024, 12:08:00 PM	74.57	192	Good
1/1/2024, 12:09:00 PM	71.74	192	Good
1/1/2024, 12:10:00 PM	71.00	192	Good
1/1/2024, 12:11:00 PM	74.85	192	Good
1/1/2024, 12:12:00 PM	70.62	192	Good
1/1/2024, 12:13:00 PM	70.81	192	Good
1/1/2024, 12:14:00 PM	70.32	192	Good
1/1/2024, 12:15:00 PM	74.92	192	Good
1/1/2024, 12:16:00 PM	72.23	192	Good
1/1/2024, 12:17:00 PM	71.62	192	Good
1/1/2024, 12:18:00 PM	75.38	192	Good
1/1/2024, 12:19:00 PM	79.75	192	Good
1/1/2024, 12:20:00 PM	79.89	192	Good
1/1/2024, 12:21:00 PM	76.93	192	Good
1/1/2024, 12:22:00 PM	76.87	192	Good
1/1/2024, 12:23:00 PM	77.07	192	Good
1/1/2024, 12:24:00 PM	77.24	192	Good
1/1/2024, 12:25:00 PM	72.33	192	Good
1/1/2024, 12:26:00 PM	79.65	192	Good
1/1/2024, 12:27:00 PM	72.89	192	Good
1/1/2024, 12:28:00 PM	72.78	192	Good
1/1/2024, 12:29:00 PM	78.81	192	Good
1/1/2024, 12:30:00 PM	74.73	192	Good
1/1/2024, 12:31:00 PM	76.66	192	Good
1/1/2024, 12:32:00 PM	74.02	192	Good
1/1/2024, 12:33:00 PM	72.84	192	Good
1/1/2024, 12:34:00 PM	73.63	192	Good
1/1/2024, 12:35:00 PM	73.73	192	Good
1/1/2024, 12:36:00 PM	79.20	192	Good
1/1/2024, 12:37:00 PM	76.27	192	Good
1/1/2024, 12:38:00 PM	77.24	192	Good
1/1/2024, 12:39:00 PM	79.30	192	Good

Data Table: PRESSURE_01

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	93.79	192	Good
1/1/2024, 11:01:00 AM	99.16	192	Good
1/1/2024, 11:02:00 AM	102.31	192	Good
1/1/2024, 11:03:00 AM	100.21	192	Good
1/1/2024, 11:04:00 AM	100.30	192	Good
1/1/2024, 11:05:00 AM	101.21	192	Good
1/1/2024, 11:06:00 AM	102.66	192	Good
1/1/2024, 11:07:00 AM	90.13	192	Good
1/1/2024, 11:08:00 AM	98.32	192	Good
1/1/2024, 11:09:00 AM	104.16	192	Good
1/1/2024, 11:10:00 AM	92.28	192	Good
1/1/2024, 11:11:00 AM	93.50	192	Good
1/1/2024, 11:12:00 AM	97.21	192	Good
1/1/2024, 11:13:00 AM	98.90	192	Good
1/1/2024, 11:14:00 AM	94.31	192	Good
1/1/2024, 11:15:00 AM	147.62	192	Good
1/1/2024, 11:16:00 AM	101.74	192	Good
1/1/2024, 11:17:00 AM	102.29	192	Good
1/1/2024, 11:18:00 AM	91.37	192	Good
1/1/2024, 11:19:00 AM	94.04	192	Good
1/1/2024, 11:20:00 AM	102.42	192	Good
1/1/2024, 11:21:00 AM	92.22	192	Good
1/1/2024, 11:22:00 AM	90.28	192	Good
1/1/2024, 11:23:00 AM	96.02	192	Good
1/1/2024, 11:24:00 AM	104.10	192	Good
1/1/2024, 11:25:00 AM	107.06	192	Good
1/1/2024, 11:26:00 AM	94.80	192	Good
1/1/2024, 11:27:00 AM	105.40	192	Good
1/1/2024, 11:28:00 AM	100.29	192	Good
1/1/2024, 11:29:00 AM	92.76	192	Good
1/1/2024, 11:30:00 AM	51.13	192	Good
1/1/2024, 11:31:00 AM	109.39	192	Good
1/1/2024, 11:32:00 AM	109.15	192	Good

1/1/2024, 11:33:00 AM	93.06	192	Good
1/1/2024, 11:34:00 AM	100.92	192	Good
1/1/2024, 11:35:00 AM	100.02	192	Good
1/1/2024, 11:36:00 AM	90.35	192	Good
1/1/2024, 11:37:00 AM	100.93	192	Good
1/1/2024, 11:38:00 AM	107.14	192	Good
1/1/2024, 11:39:00 AM	94.96	192	Good
1/1/2024, 11:40:00 AM	103.14	192	Good
1/1/2024, 11:41:00 AM	90.99	192	Good
1/1/2024, 11:42:00 AM	95.78	192	Good
1/1/2024, 11:43:00 AM	104.68	192	Good
1/1/2024, 11:44:00 AM	108.77	192	Good
1/1/2024, 11:45:00 AM	100.08	192	Good
1/1/2024, 11:46:00 AM	106.32	192	Good
1/1/2024, 11:47:00 AM	107.74	192	Good
1/1/2024, 11:48:00 AM	107.98	192	Good
1/1/2024, 11:49:00 AM	107.50	192	Good
1/1/2024, 11:50:00 AM	96.45	192	Good
1/1/2024, 11:51:00 AM	101.02	192	Good
1/1/2024, 11:52:00 AM	108.39	192	Good
1/1/2024, 11:53:00 AM	91.53	192	Good
1/1/2024, 11:54:00 AM	105.69	192	Good
1/1/2024, 11:55:00 AM	105.93	192	Good
1/1/2024, 11:56:00 AM	95.56	192	Good
1/1/2024, 11:57:00 AM	106.40	192	Good
1/1/2024, 11:58:00 AM	106.02	192	Good
1/1/2024, 11:59:00 AM	92.88	192	Good
1/1/2024, 12:00:00 PM	107.44	192	Good
1/1/2024, 12:01:00 PM	94.24	192	Good
1/1/2024, 12:02:00 PM	95.30	192	Good
1/1/2024, 12:03:00 PM	95.97	192	Good
1/1/2024, 12:04:00 PM	94.78	192	Good
1/1/2024, 12:05:00 PM	90.39	192	Good
1/1/2024, 12:06:00 PM	102.53	192	Good
1/1/2024, 12:07:00 PM	106.71	192	Good

1/1/2024, 12:08:00 PM	95.38	192	Good
1/1/2024, 12:09:00 PM	105.29	192	Good
1/1/2024, 12:10:00 PM	106.33	192	Good
1/1/2024, 12:11:00 PM	93.59	192	Good
1/1/2024, 12:12:00 PM	92.36	192	Good
1/1/2024, 12:13:00 PM	96.72	192	Good
1/1/2024, 12:14:00 PM	105.50	192	Good
1/1/2024, 12:15:00 PM	109.50	192	Good
1/1/2024, 12:16:00 PM	92.85	192	Good
1/1/2024, 12:17:00 PM	98.93	192	Good
1/1/2024, 12:18:00 PM	94.46	192	Good
1/1/2024, 12:19:00 PM	104.90	192	Good
1/1/2024, 12:20:00 PM	93.40	192	Good
1/1/2024, 12:21:00 PM	107.23	192	Good
1/1/2024, 12:22:00 PM	100.65	192	Good
1/1/2024, 12:23:00 PM	102.68	192	Good
1/1/2024, 12:24:00 PM	97.02	192	Good
1/1/2024, 12:25:00 PM	90.26	192	Good
1/1/2024, 12:26:00 PM	91.61	192	Good
1/1/2024, 12:27:00 PM	93.03	192	Good
1/1/2024, 12:28:00 PM	101.96	192	Good
1/1/2024, 12:29:00 PM	109.92	192	Good
1/1/2024, 12:30:00 PM	100.34	192	Good
1/1/2024, 12:31:00 PM	98.57	192	Good
1/1/2024, 12:32:00 PM	96.67	192	Good
1/1/2024, 12:33:00 PM	97.85	192	Good
1/1/2024, 12:34:00 PM	92.80	192	Good
1/1/2024, 12:35:00 PM	109.50	192	Good
1/1/2024, 12:36:00 PM	103.83	192	Good
1/1/2024, 12:37:00 PM	108.05	192	Good
1/1/2024, 12:38:00 PM	99.07	192	Good
1/1/2024, 12:39:00 PM	97.85	192	Good

Statistical Summary

Tag	Min	Max	Average	Std Dev	Quality %
TEMP_01	50.85	95.03	74.87	5.00	100.0%
PRESSURE_01	51.13	147.62	99.66	10.00	100.0%