

Analytics Integration Test - Mixed Tags

Test report with both analog and digital tags

Report Period: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:30:00 PM

Generated: 1/22/2026, 6:43:49 PM
Tags: FLOW_01, PUMP_STATUS

Data Points: 160
Format: PDF

Executive Summary

This report analyzes 2 tag(s) over the specified time period, containing a total of 160 data points. The analysis includes statistical summaries, trend analysis, and data quality metrics.

Key Findings:

- FLOW_01: Average 49.83, Range 42.03 - 57.91, Data Quality 100.0%
- PUMP_STATUS: Average 0.61, Range 0.00 - 1.00, Data Quality 100.0%

Tag: FLOW_01

Data Points: 80

Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:19:00 PM

Statistical Summary:

Minimum: 42.03

Maximum: 57.91

Average: 49.83

Standard Deviation: 8.00

Data Quality: 100.0%

Data Quality Breakdown:

Good Quality: 80 (100.0%)

Bad Quality: 0 (0.0%)

Uncertain Quality: 0 (0.0%)

Tag: PUMP_STATUS

Data Points: 80

Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:19:00 PM

Statistical Summary:

Minimum: 0.00

Maximum: 1.00

Average: 0.61

Standard Deviation: 0.50

Data Quality: 100.0%

Data Quality Breakdown:

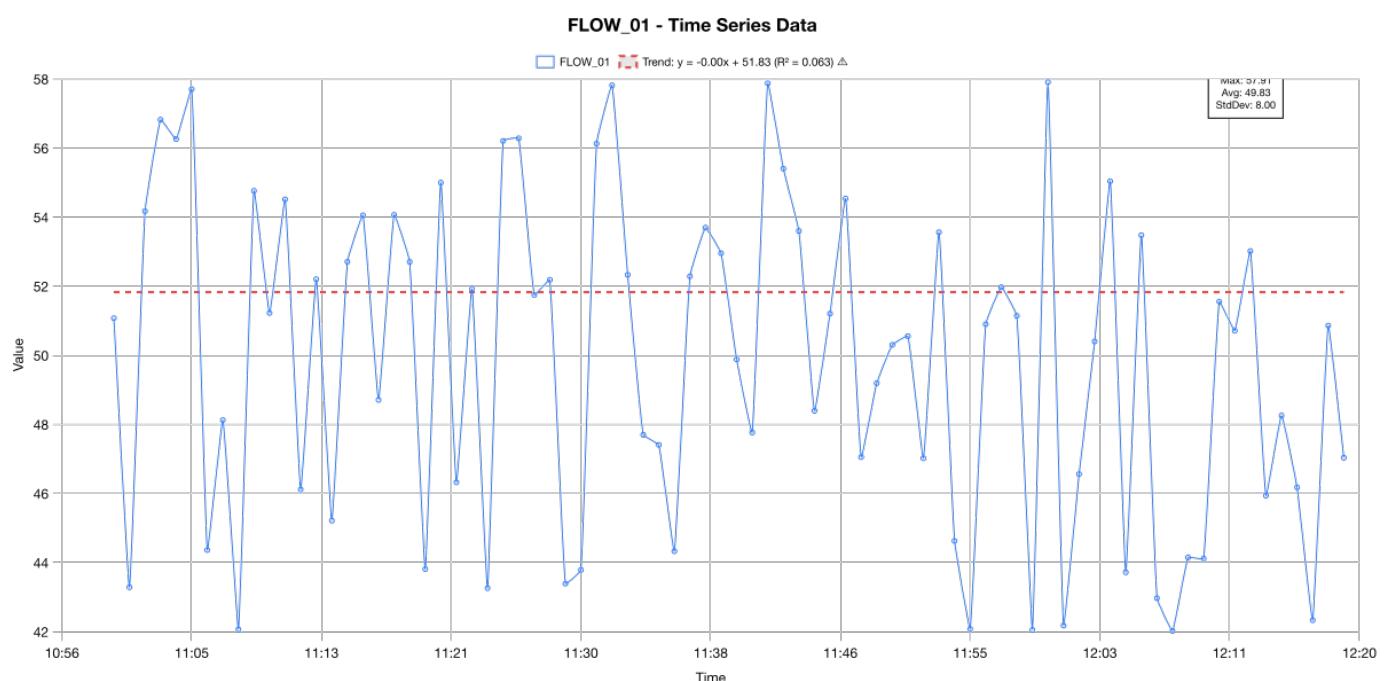
Good Quality: 80 (100.0%)

Bad Quality: 0 (0.0%)

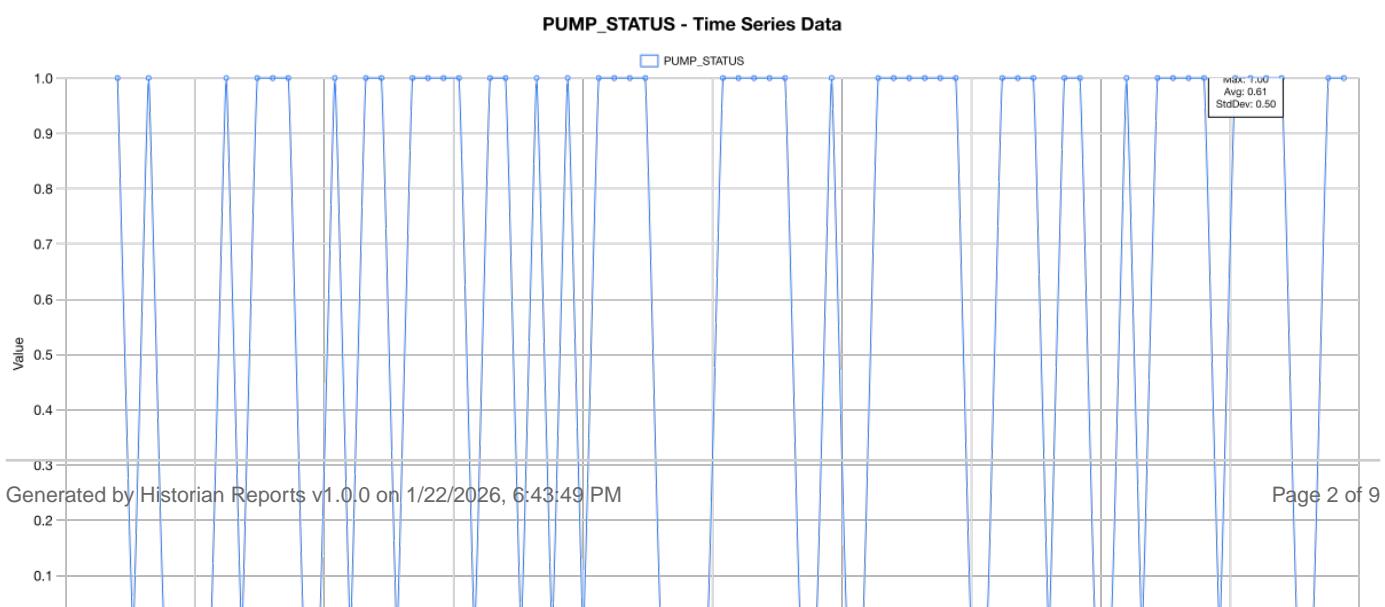
Uncertain Quality: 0 (0.0%)

Data Visualizations

FLOW_01 - Data Trend



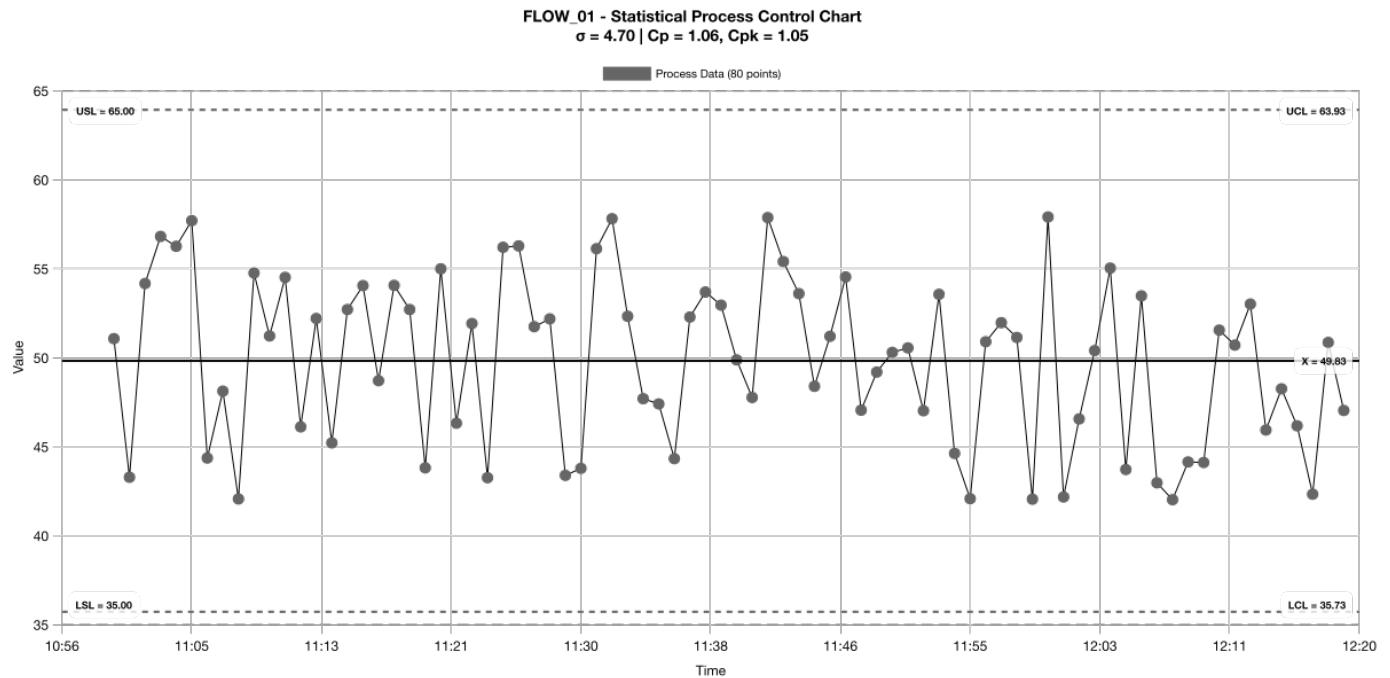
PUMP_STATUS - Data Trend



Statistical Process Control Analysis

Data Visualizations

FLOW_01 - SPC Chart



SPC Metrics Summary

Tag Name	Mean	StdDev	LSL	USL	Cp	Cpk	Capability
FLOW_01	49.83	4.70	35.00	65.00	1.06	1.05	Marginal

Data Table: FLOW_01

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	51.08	192	Good
1/1/2024, 11:01:00 AM	43.29	192	Good
1/1/2024, 11:02:00 AM	54.18	192	Good
1/1/2024, 11:03:00 AM	56.82	192	Good
1/1/2024, 11:04:00 AM	56.26	192	Good
1/1/2024, 11:05:00 AM	57.71	192	Good
1/1/2024, 11:06:00 AM	44.37	192	Good
1/1/2024, 11:07:00 AM	48.13	192	Good
1/1/2024, 11:08:00 AM	42.07	192	Good
1/1/2024, 11:09:00 AM	54.76	192	Good
1/1/2024, 11:10:00 AM	51.23	192	Good
1/1/2024, 11:11:00 AM	54.52	192	Good
1/1/2024, 11:12:00 AM	46.12	192	Good
1/1/2024, 11:13:00 AM	52.21	192	Good
1/1/2024, 11:14:00 AM	45.22	192	Good
1/1/2024, 11:15:00 AM	52.71	192	Good
1/1/2024, 11:16:00 AM	54.05	192	Good
1/1/2024, 11:17:00 AM	48.71	192	Good
1/1/2024, 11:18:00 AM	54.07	192	Good
1/1/2024, 11:19:00 AM	52.71	192	Good
1/1/2024, 11:20:00 AM	43.81	192	Good
1/1/2024, 11:21:00 AM	55.00	192	Good
1/1/2024, 11:22:00 AM	46.33	192	Good
1/1/2024, 11:23:00 AM	51.93	192	Good
1/1/2024, 11:24:00 AM	43.26	192	Good
1/1/2024, 11:25:00 AM	56.21	192	Good
1/1/2024, 11:26:00 AM	56.28	192	Good
1/1/2024, 11:27:00 AM	51.75	192	Good
1/1/2024, 11:28:00 AM	52.19	192	Good
1/1/2024, 11:29:00 AM	43.39	192	Good
1/1/2024, 11:30:00 AM	43.79	192	Good
1/1/2024, 11:31:00 AM	56.13	192	Good
1/1/2024, 11:32:00 AM	57.82	192	Good

1/1/2024, 11:33:00 AM	52.33	192	Good
1/1/2024, 11:34:00 AM	47.70	192	Good
1/1/2024, 11:35:00 AM	47.41	192	Good
1/1/2024, 11:36:00 AM	44.33	192	Good
1/1/2024, 11:37:00 AM	52.29	192	Good
1/1/2024, 11:38:00 AM	53.70	192	Good
1/1/2024, 11:39:00 AM	52.96	192	Good
1/1/2024, 11:40:00 AM	49.88	192	Good
1/1/2024, 11:41:00 AM	47.77	192	Good
1/1/2024, 11:42:00 AM	57.88	192	Good
1/1/2024, 11:43:00 AM	55.41	192	Good
1/1/2024, 11:44:00 AM	53.60	192	Good
1/1/2024, 11:45:00 AM	48.40	192	Good
1/1/2024, 11:46:00 AM	51.21	192	Good
1/1/2024, 11:47:00 AM	54.54	192	Good
1/1/2024, 11:48:00 AM	47.06	192	Good
1/1/2024, 11:49:00 AM	49.20	192	Good
1/1/2024, 11:50:00 AM	50.31	192	Good
1/1/2024, 11:51:00 AM	50.56	192	Good
1/1/2024, 11:52:00 AM	47.02	192	Good
1/1/2024, 11:53:00 AM	53.57	192	Good
1/1/2024, 11:54:00 AM	44.63	192	Good
1/1/2024, 11:55:00 AM	42.08	192	Good
1/1/2024, 11:56:00 AM	50.90	192	Good
1/1/2024, 11:57:00 AM	51.97	192	Good
1/1/2024, 11:58:00 AM	51.14	192	Good
1/1/2024, 11:59:00 AM	42.05	192	Good
1/1/2024, 12:00:00 PM	57.91	192	Good
1/1/2024, 12:01:00 PM	42.18	192	Good
1/1/2024, 12:02:00 PM	46.56	192	Good
1/1/2024, 12:03:00 PM	50.40	192	Good
1/1/2024, 12:04:00 PM	55.04	192	Good
1/1/2024, 12:05:00 PM	43.72	192	Good
1/1/2024, 12:06:00 PM	53.48	192	Good
1/1/2024, 12:07:00 PM	42.97	192	Good

1/1/2024, 12:08:00 PM	42.03	192	Good
1/1/2024, 12:09:00 PM	44.15	192	Good
1/1/2024, 12:10:00 PM	44.12	192	Good
1/1/2024, 12:11:00 PM	51.56	192	Good
1/1/2024, 12:12:00 PM	50.71	192	Good
1/1/2024, 12:13:00 PM	53.02	192	Good
1/1/2024, 12:14:00 PM	45.94	192	Good
1/1/2024, 12:15:00 PM	48.26	192	Good
1/1/2024, 12:16:00 PM	46.18	192	Good
1/1/2024, 12:17:00 PM	42.34	192	Good
1/1/2024, 12:18:00 PM	50.86	192	Good
1/1/2024, 12:19:00 PM	47.04	192	Good

Data Table: PUMP_STATUS

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	1.00	192	Good
1/1/2024, 11:01:00 AM	0.00	192	Good
1/1/2024, 11:02:00 AM	1.00	192	Good
1/1/2024, 11:03:00 AM	0.00	192	Good
1/1/2024, 11:04:00 AM	0.00	192	Good
1/1/2024, 11:05:00 AM	0.00	192	Good
1/1/2024, 11:06:00 AM	0.00	192	Good
1/1/2024, 11:07:00 AM	1.00	192	Good
1/1/2024, 11:08:00 AM	0.00	192	Good
1/1/2024, 11:09:00 AM	1.00	192	Good
1/1/2024, 11:10:00 AM	1.00	192	Good
1/1/2024, 11:11:00 AM	1.00	192	Good
1/1/2024, 11:12:00 AM	0.00	192	Good
1/1/2024, 11:13:00 AM	0.00	192	Good
1/1/2024, 11:14:00 AM	1.00	192	Good
1/1/2024, 11:15:00 AM	0.00	192	Good
1/1/2024, 11:16:00 AM	1.00	192	Good
1/1/2024, 11:17:00 AM	1.00	192	Good
1/1/2024, 11:18:00 AM	0.00	192	Good
1/1/2024, 11:19:00 AM	1.00	192	Good
1/1/2024, 11:20:00 AM	1.00	192	Good
1/1/2024, 11:21:00 AM	1.00	192	Good
1/1/2024, 11:22:00 AM	1.00	192	Good
1/1/2024, 11:23:00 AM	0.00	192	Good
1/1/2024, 11:24:00 AM	1.00	192	Good
1/1/2024, 11:25:00 AM	1.00	192	Good
1/1/2024, 11:26:00 AM	0.00	192	Good
1/1/2024, 11:27:00 AM	1.00	192	Good
1/1/2024, 11:28:00 AM	0.00	192	Good
1/1/2024, 11:29:00 AM	1.00	192	Good
1/1/2024, 11:30:00 AM	0.00	192	Good
1/1/2024, 11:31:00 AM	1.00	192	Good
1/1/2024, 11:32:00 AM	1.00	192	Good

1/1/2024, 11:33:00 AM	1.00	192	Good
1/1/2024, 11:34:00 AM	1.00	192	Good
1/1/2024, 11:35:00 AM	0.00	192	Good
1/1/2024, 11:36:00 AM	0.00	192	Good
1/1/2024, 11:37:00 AM	0.00	192	Good
1/1/2024, 11:38:00 AM	0.00	192	Good
1/1/2024, 11:39:00 AM	1.00	192	Good
1/1/2024, 11:40:00 AM	1.00	192	Good
1/1/2024, 11:41:00 AM	1.00	192	Good
1/1/2024, 11:42:00 AM	1.00	192	Good
1/1/2024, 11:43:00 AM	1.00	192	Good
1/1/2024, 11:44:00 AM	0.00	192	Good
1/1/2024, 11:45:00 AM	0.00	192	Good
1/1/2024, 11:46:00 AM	1.00	192	Good
1/1/2024, 11:47:00 AM	0.00	192	Good
1/1/2024, 11:48:00 AM	0.00	192	Good
1/1/2024, 11:49:00 AM	1.00	192	Good
1/1/2024, 11:50:00 AM	1.00	192	Good
1/1/2024, 11:51:00 AM	1.00	192	Good
1/1/2024, 11:52:00 AM	1.00	192	Good
1/1/2024, 11:53:00 AM	1.00	192	Good
1/1/2024, 11:54:00 AM	1.00	192	Good
1/1/2024, 11:55:00 AM	0.00	192	Good
1/1/2024, 11:56:00 AM	0.00	192	Good
1/1/2024, 11:57:00 AM	1.00	192	Good
1/1/2024, 11:58:00 AM	1.00	192	Good
1/1/2024, 11:59:00 AM	1.00	192	Good
1/1/2024, 12:00:00 PM	0.00	192	Good
1/1/2024, 12:01:00 PM	1.00	192	Good
1/1/2024, 12:02:00 PM	1.00	192	Good
1/1/2024, 12:03:00 PM	0.00	192	Good
1/1/2024, 12:04:00 PM	0.00	192	Good
1/1/2024, 12:05:00 PM	1.00	192	Good
1/1/2024, 12:06:00 PM	0.00	192	Good
1/1/2024, 12:07:00 PM	1.00	192	Good

1/1/2024, 12:08:00 PM	1.00	192	Good
1/1/2024, 12:09:00 PM	1.00	192	Good
1/1/2024, 12:10:00 PM	1.00	192	Good
1/1/2024, 12:11:00 PM	0.00	192	Good
1/1/2024, 12:12:00 PM	1.00	192	Good
1/1/2024, 12:13:00 PM	1.00	192	Good
1/1/2024, 12:14:00 PM	1.00	192	Good
1/1/2024, 12:15:00 PM	1.00	192	Good
1/1/2024, 12:16:00 PM	0.00	192	Good
1/1/2024, 12:17:00 PM	0.00	192	Good
1/1/2024, 12:18:00 PM	1.00	192	Good
1/1/2024, 12:19:00 PM	1.00	192	Good

Statistical Summary

Tag	Min	Max	Average	Std Dev	Quality %
FLOW_01	42.03	57.91	49.83	8.00	100.0%
PUMP_STATUS	0.00	1.00	0.61	0.50	100.0%