

# 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, 8:15:44 AM

**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 50.37, Range 42.27 - 57.86, Data Quality 100.0%
- PUMP\_STATUS: Average 0.49, 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: 42.27

Maximum: 57.86

Average: 50.37

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: 0.49

Standard Deviation: 0.50

Data Quality: 100.0%

### Data Quality Breakdown:

Good Quality: 80 (100.0%)

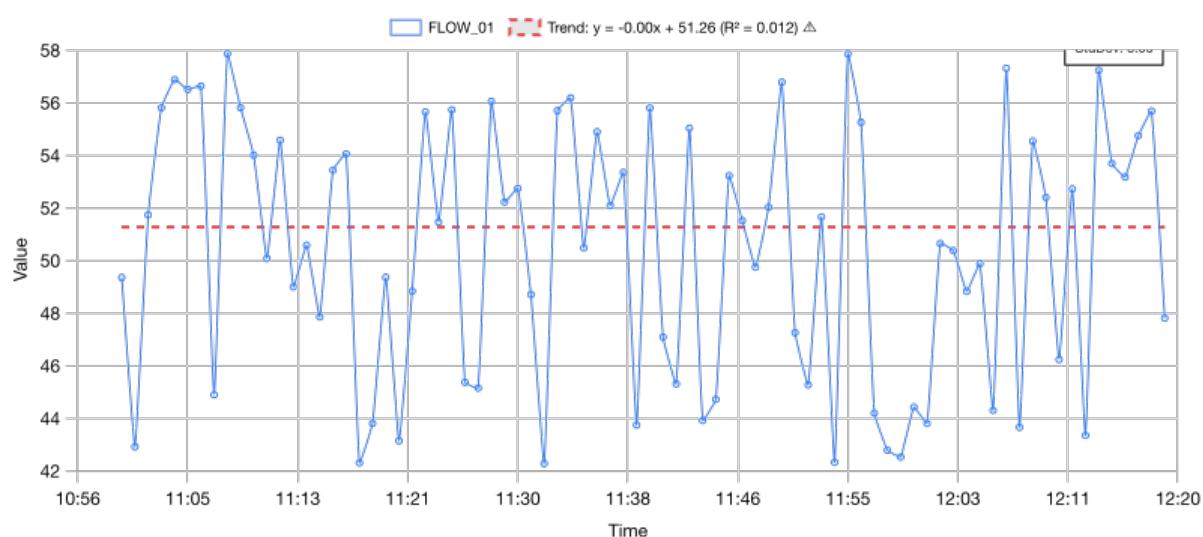
Bad Quality: 0 (0.0%)

Uncertain Quality: 0 (0.0%)

## Data Visualizations

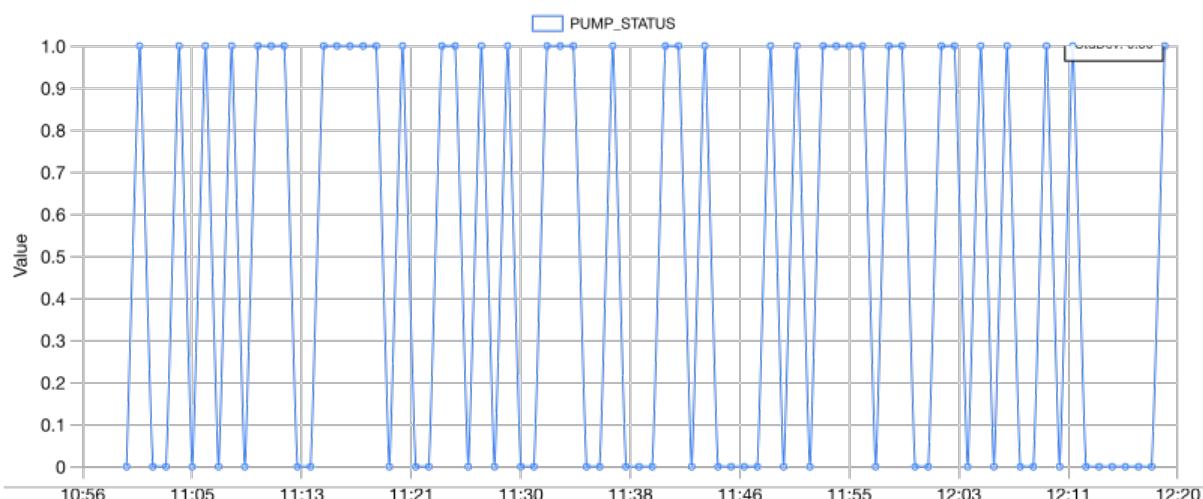
**FLOW\_01 - Data Trend**

**FLOW\_01 - Time Series Data**



**PUMP\_STATUS - Data Trend**

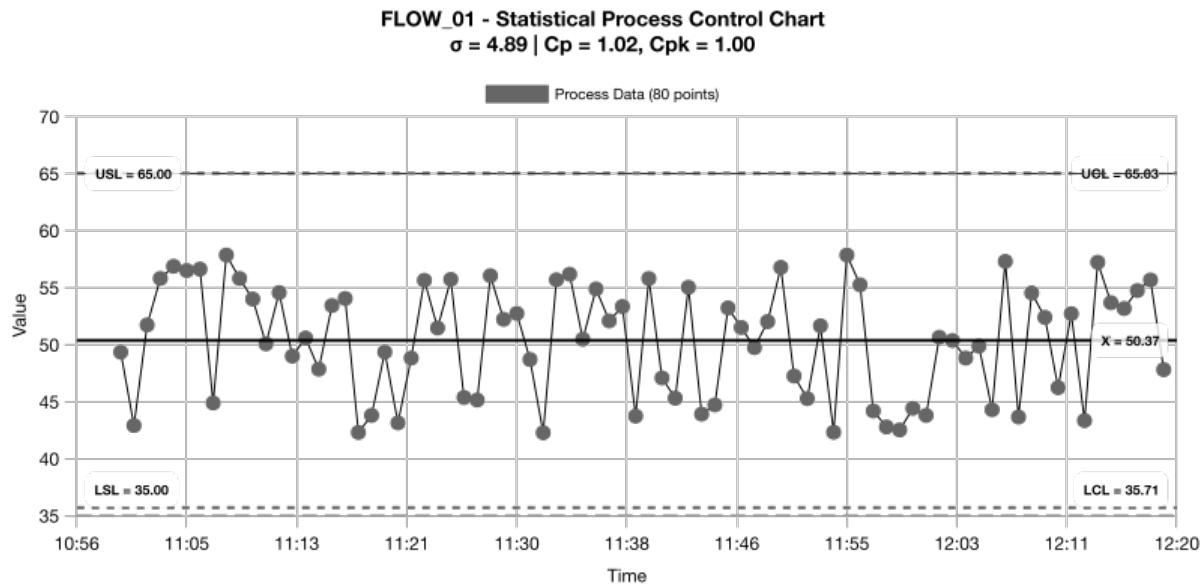
**PUMP\_STATUS - Time Series Data**



# Statistical Process Control Analysis

## Data Visualizations

### FLOW\_01 - SPC Chart



## SPC Metrics Summary

Tag Name	X̄@	Sigma @	LSL	USL	Cp	Cpk	Capability
FLOW_01	50.37	4.89	35.00	65.00	1.02	1.00	Marginal

**Data Table: FLOW\_01**

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	49.34	192	Good
1/1/2024, 11:01:00 AM	42.91	192	Good
1/1/2024, 11:02:00 AM	51.73	192	Good
1/1/2024, 11:03:00 AM	55.80	192	Good
1/1/2024, 11:04:00 AM	56.87	192	Good
1/1/2024, 11:05:00 AM	56.50	192	Good
1/1/2024, 11:06:00 AM	56.62	192	Good
1/1/2024, 11:07:00 AM	44.88	192	Good
1/1/2024, 11:08:00 AM	57.86	192	Good
1/1/2024, 11:09:00 AM	55.80	192	Good
1/1/2024, 11:10:00 AM	54.00	192	Good
1/1/2024, 11:11:00 AM	50.07	192	Good
1/1/2024, 11:12:00 AM	54.57	192	Good
1/1/2024, 11:13:00 AM	48.99	192	Good
1/1/2024, 11:14:00 AM	50.57	192	Good
1/1/2024, 11:15:00 AM	47.85	192	Good
1/1/2024, 11:16:00 AM	53.43	192	Good
1/1/2024, 11:17:00 AM	54.05	192	Good
1/1/2024, 11:18:00 AM	42.30	192	Good
1/1/2024, 11:19:00 AM	43.80	192	Good
1/1/2024, 11:20:00 AM	49.35	192	Good
1/1/2024, 11:21:00 AM	43.13	192	Good
1/1/2024, 11:22:00 AM	48.82	192	Good
1/1/2024, 11:23:00 AM	55.64	192	Good
1/1/2024, 11:24:00 AM	51.46	192	Good
1/1/2024, 11:25:00 AM	55.72	192	Good
1/1/2024, 11:26:00 AM	45.36	192	Good
1/1/2024, 11:27:00 AM	45.14	192	Good
1/1/2024, 11:28:00 AM	56.05	192	Good
1/1/2024, 11:29:00 AM	52.22	192	Good
1/1/2024, 11:30:00 AM	52.74	192	Good
1/1/2024, 11:31:00 AM	48.70	192	Good
1/1/2024, 11:32:00 AM	42.27	192	Good

1/1/2024, 11:33:00 AM	55.69	192	Good
1/1/2024, 11:34:00 AM	56.17	192	Good
1/1/2024, 11:35:00 AM	50.47	192	Good
1/1/2024, 11:36:00 AM	54.89	192	Good
1/1/2024, 11:37:00 AM	52.08	192	Good
1/1/2024, 11:38:00 AM	53.34	192	Good
1/1/2024, 11:39:00 AM	43.74	192	Good
1/1/2024, 11:40:00 AM	55.80	192	Good
1/1/2024, 11:41:00 AM	47.08	192	Good
1/1/2024, 11:42:00 AM	45.30	192	Good
1/1/2024, 11:43:00 AM	55.03	192	Good
1/1/2024, 11:44:00 AM	43.91	192	Good
1/1/2024, 11:45:00 AM	44.71	192	Good
1/1/2024, 11:46:00 AM	53.22	192	Good
1/1/2024, 11:47:00 AM	51.51	192	Good
1/1/2024, 11:48:00 AM	49.74	192	Good
1/1/2024, 11:49:00 AM	52.02	192	Good
1/1/2024, 11:50:00 AM	56.77	192	Good
1/1/2024, 11:51:00 AM	47.25	192	Good
1/1/2024, 11:52:00 AM	45.26	192	Good
1/1/2024, 11:53:00 AM	51.65	192	Good
1/1/2024, 11:54:00 AM	42.32	192	Good
1/1/2024, 11:55:00 AM	57.85	192	Good
1/1/2024, 11:56:00 AM	55.25	192	Good
1/1/2024, 11:57:00 AM	44.19	192	Good
1/1/2024, 11:58:00 AM	42.78	192	Good
1/1/2024, 11:59:00 AM	42.52	192	Good
1/1/2024, 12:00:00 PM	44.42	192	Good
1/1/2024, 12:01:00 PM	43.79	192	Good
1/1/2024, 12:02:00 PM	50.64	192	Good
1/1/2024, 12:03:00 PM	50.37	192	Good
1/1/2024, 12:04:00 PM	48.82	192	Good
1/1/2024, 12:05:00 PM	49.87	192	Good
1/1/2024, 12:06:00 PM	44.29	192	Good
1/1/2024, 12:07:00 PM	57.30	192	Good

1/1/2024, 12:08:00 PM	43.65	192	Good
1/1/2024, 12:09:00 PM	54.53	192	Good
1/1/2024, 12:10:00 PM	52.39	192	Good
1/1/2024, 12:11:00 PM	46.23	192	Good
1/1/2024, 12:12:00 PM	52.71	192	Good
1/1/2024, 12:13:00 PM	43.34	192	Good
1/1/2024, 12:14:00 PM	57.22	192	Good
1/1/2024, 12:15:00 PM	53.68	192	Good
1/1/2024, 12:16:00 PM	53.17	192	Good
1/1/2024, 12:17:00 PM	54.74	192	Good
1/1/2024, 12:18:00 PM	55.67	192	Good
1/1/2024, 12:19:00 PM	47.80	192	Good

## Data Table: PUMP\_STATUS

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	0.00	192	Good
1/1/2024, 11:01:00 AM	1.00	192	Good
1/1/2024, 11:02:00 AM	0.00	192	Good
1/1/2024, 11:03:00 AM	0.00	192	Good
1/1/2024, 11:04:00 AM	1.00	192	Good
1/1/2024, 11:05:00 AM	0.00	192	Good
1/1/2024, 11:06:00 AM	1.00	192	Good
1/1/2024, 11:07:00 AM	0.00	192	Good
1/1/2024, 11:08:00 AM	1.00	192	Good
1/1/2024, 11:09:00 AM	0.00	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	1.00	192	Good
1/1/2024, 11:13:00 AM	0.00	192	Good
1/1/2024, 11:14:00 AM	0.00	192	Good
1/1/2024, 11:15:00 AM	1.00	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	1.00	192	Good
1/1/2024, 11:19:00 AM	1.00	192	Good
1/1/2024, 11:20:00 AM	0.00	192	Good
1/1/2024, 11:21:00 AM	1.00	192	Good
1/1/2024, 11:22:00 AM	0.00	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	0.00	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	1.00	192	Good
1/1/2024, 11:38:00 AM	0.00	192	Good
1/1/2024, 11:39:00 AM	0.00	192	Good
1/1/2024, 11:40:00 AM	0.00	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	0.00	192	Good
1/1/2024, 11:44:00 AM	1.00	192	Good
1/1/2024, 11:45:00 AM	0.00	192	Good
1/1/2024, 11:46:00 AM	0.00	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	0.00	192	Good
1/1/2024, 11:51:00 AM	1.00	192	Good
1/1/2024, 11:52:00 AM	0.00	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	1.00	192	Good
1/1/2024, 11:56:00 AM	1.00	192	Good
1/1/2024, 11:57:00 AM	0.00	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	0.00	192	Good
1/1/2024, 12:02:00 PM	1.00	192	Good
1/1/2024, 12:03:00 PM	1.00	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	0.00	192	Good
1/1/2024, 12:09:00 PM	0.00	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	0.00	192	Good
1/1/2024, 12:14:00 PM	0.00	192	Good
1/1/2024, 12:15:00 PM	0.00	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	0.00	192	Good
1/1/2024, 12:19:00 PM	1.00	192	Good

### Statistical Summary

Tag	Min	Max	Average	Std Dev	Quality %
FLOW_01	42.27	57.86	50.37	8.00	100.0%
PUMP_STATUS	0.00	1.00	0.49	0.50	100.0%