

# 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:	1/28/2026, 11:13:55 AM	Data Points:	160
Tags:	FLOW_01, PUMP_STATUS	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 49.09, Range 42.11 - 57.79, Data Quality 100.0%
  - PUMP\_STATUS: Average 0.54, 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: 42.11  
Maximum: 57.79  
Average: 49.09  
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:

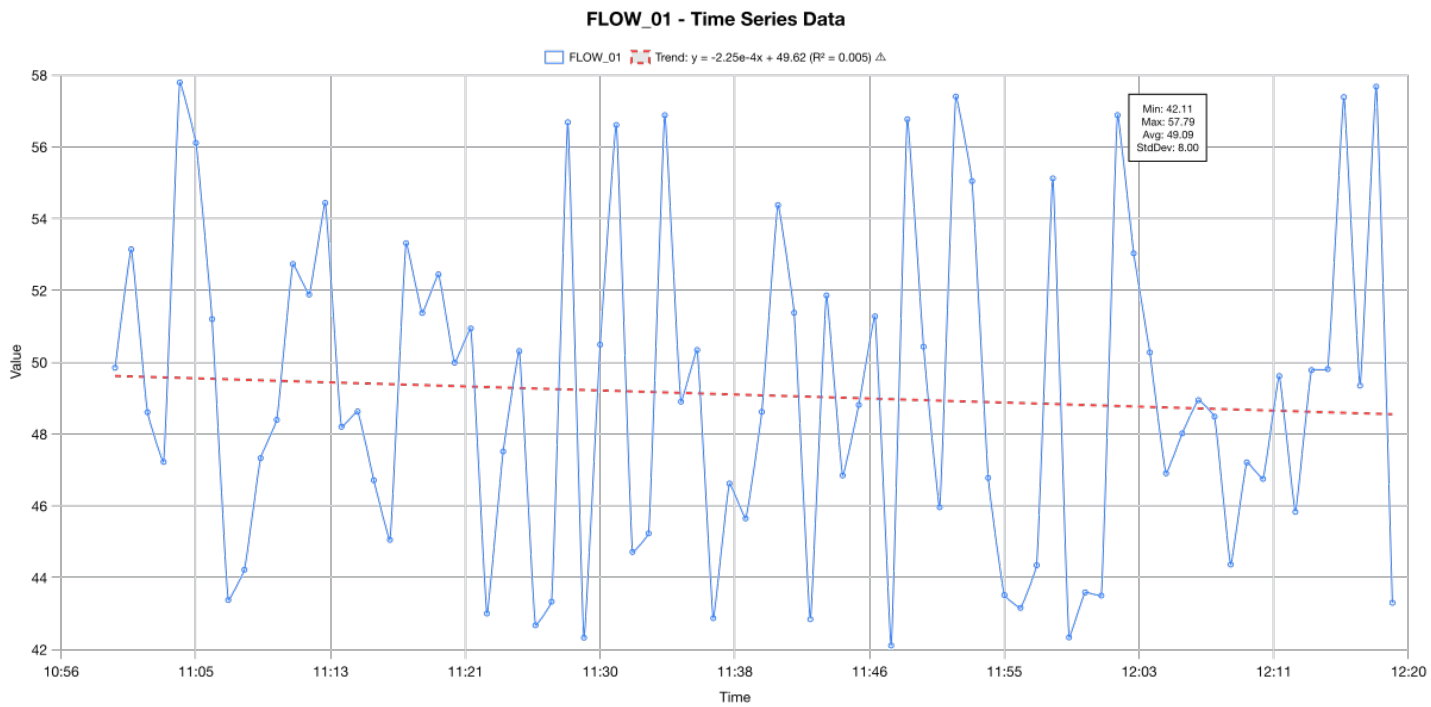
Minimum: 0.00  
Maximum: 1.00  
Average: 0.54  
Standard Deviation: 0.50  
Data Quality: 100.0%

Data Quality Breakdown:

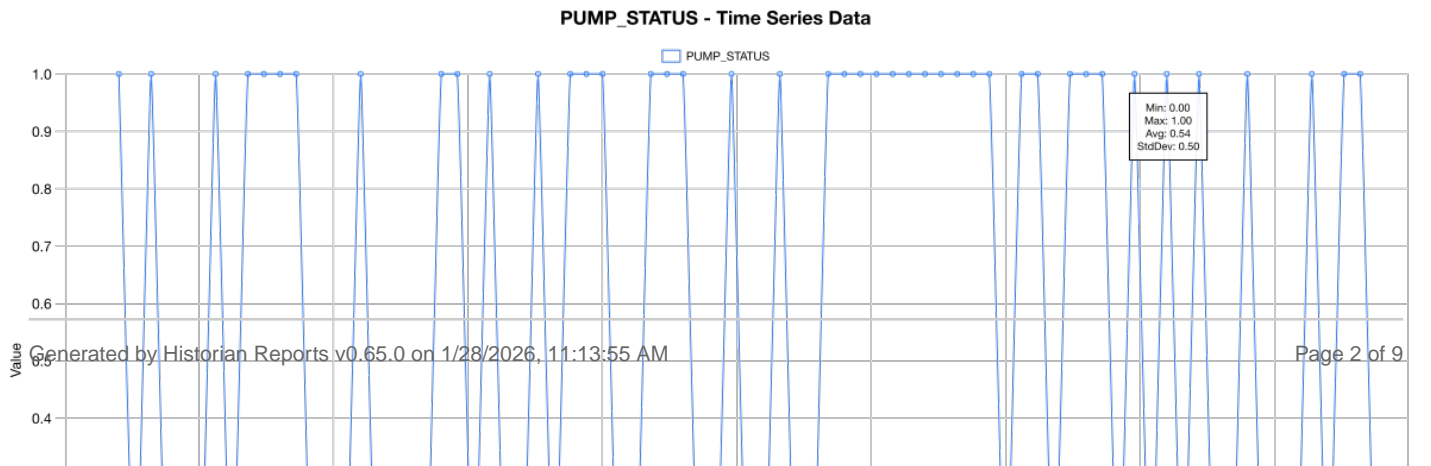
Good Quality: 80 (100.0%)  
Bad Quality: 0 (0.0%)  
Uncertain Quality: 0 (0.0%)

Data Visualizations

FLOW\_01 - Data Trend



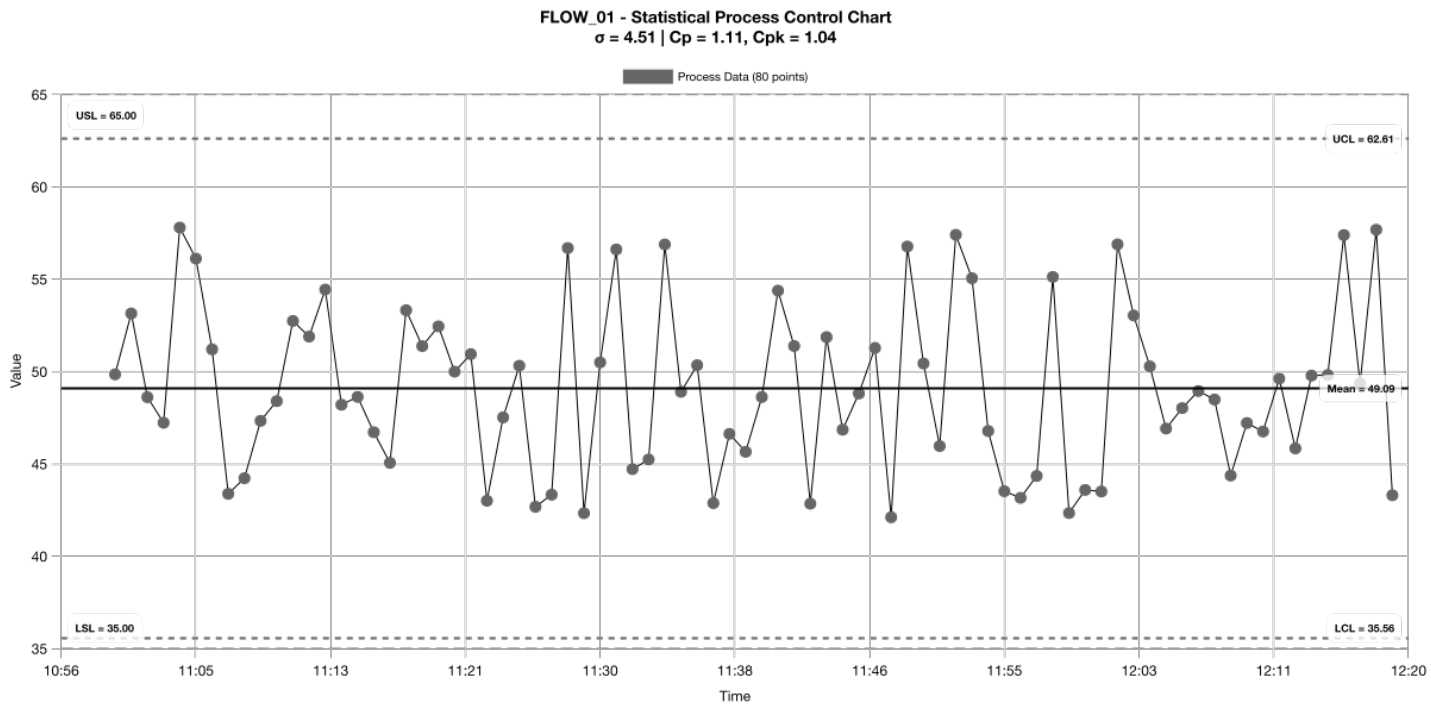
PUMP\_STATUS - Data Trend



# Statistical Process Control Analysis

## Data Visualizations

FLOW\_01 - SPC Chart



## SPC Metrics Summary

Tag Name	Average	Std Dev	LCL	UCL	LSL	USL	Cp	Cpk	Stat
FLOW_01	49.09	4.51	35.56	62.61	35.00	65.00	1.11	1.04	Marginal

Data Table: FLOW\_01

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	49.85	192	Good
1/1/2024, 11:01:00 AM	53.14	192	Good
1/1/2024, 11:02:00 AM	48.61	192	Good
1/1/2024, 11:03:00 AM	47.23	192	Good
1/1/2024, 11:04:00 AM	57.79	192	Good
1/1/2024, 11:05:00 AM	56.11	192	Good
1/1/2024, 11:06:00 AM	51.20	192	Good
1/1/2024, 11:07:00 AM	43.38	192	Good
1/1/2024, 11:08:00 AM	44.22	192	Good
1/1/2024, 11:09:00 AM	47.33	192	Good
1/1/2024, 11:10:00 AM	48.40	192	Good
1/1/2024, 11:11:00 AM	52.74	192	Good
1/1/2024, 11:12:00 AM	51.89	192	Good
1/1/2024, 11:13:00 AM	54.44	192	Good
1/1/2024, 11:14:00 AM	48.20	192	Good
1/1/2024, 11:15:00 AM	48.63	192	Good
1/1/2024, 11:16:00 AM	46.71	192	Good
1/1/2024, 11:17:00 AM	45.05	192	Good
1/1/2024, 11:18:00 AM	53.32	192	Good
1/1/2024, 11:19:00 AM	51.38	192	Good
1/1/2024, 11:20:00 AM	52.45	192	Good
1/1/2024, 11:21:00 AM	49.99	192	Good
1/1/2024, 11:22:00 AM	50.94	192	Good
1/1/2024, 11:23:00 AM	43.00	192	Good
1/1/2024, 11:24:00 AM	47.52	192	Good
1/1/2024, 11:25:00 AM	50.31	192	Good
1/1/2024, 11:26:00 AM	42.67	192	Good
1/1/2024, 11:27:00 AM	43.33	192	Good
1/1/2024, 11:28:00 AM	56.69	192	Good
1/1/2024, 11:29:00 AM	42.33	192	Good
1/1/2024, 11:30:00 AM	50.49	192	Good

1/1/2024, 11:31:00 AM	56.61	192	Good
1/1/2024, 11:32:00 AM	44.72	192	Good
1/1/2024, 11:33:00 AM	45.23	192	Good
1/1/2024, 11:34:00 AM	56.88	192	Good
1/1/2024, 11:35:00 AM	48.90	192	Good
1/1/2024, 11:36:00 AM	50.34	192	Good
1/1/2024, 11:37:00 AM	42.87	192	Good
1/1/2024, 11:38:00 AM	46.62	192	Good
1/1/2024, 11:39:00 AM	45.65	192	Good
1/1/2024, 11:40:00 AM	48.62	192	Good
1/1/2024, 11:41:00 AM	54.38	192	Good
1/1/2024, 11:42:00 AM	51.38	192	Good
1/1/2024, 11:43:00 AM	42.84	192	Good
1/1/2024, 11:44:00 AM	51.86	192	Good
1/1/2024, 11:45:00 AM	46.85	192	Good
1/1/2024, 11:46:00 AM	48.81	192	Good
1/1/2024, 11:47:00 AM	51.28	192	Good
1/1/2024, 11:48:00 AM	42.11	192	Good
1/1/2024, 11:49:00 AM	56.77	192	Good
1/1/2024, 11:50:00 AM	50.43	192	Good
1/1/2024, 11:51:00 AM	45.96	192	Good
1/1/2024, 11:52:00 AM	57.40	192	Good
1/1/2024, 11:53:00 AM	55.05	192	Good
1/1/2024, 11:54:00 AM	46.78	192	Good
1/1/2024, 11:55:00 AM	43.52	192	Good
1/1/2024, 11:56:00 AM	43.16	192	Good
1/1/2024, 11:57:00 AM	44.35	192	Good
1/1/2024, 11:58:00 AM	55.12	192	Good
1/1/2024, 11:59:00 AM	42.34	192	Good
1/1/2024, 12:00:00 PM	43.59	192	Good
1/1/2024, 12:01:00 PM	43.50	192	Good
1/1/2024, 12:02:00 PM	56.88	192	Good
1/1/2024, 12:03:00 PM	53.03	192	Good
1/1/2024, 12:04:00 PM	50.28	192	Good

1/1/2024, 12:05:00 PM	46.91	192	Good
1/1/2024, 12:06:00 PM	48.02	192	Good
1/1/2024, 12:07:00 PM	48.94	192	Good
1/1/2024, 12:08:00 PM	48.48	192	Good
1/1/2024, 12:09:00 PM	44.37	192	Good
1/1/2024, 12:10:00 PM	47.21	192	Good
1/1/2024, 12:11:00 PM	46.75	192	Good
1/1/2024, 12:12:00 PM	49.61	192	Good
1/1/2024, 12:13:00 PM	45.83	192	Good
1/1/2024, 12:14:00 PM	49.78	192	Good
1/1/2024, 12:15:00 PM	49.81	192	Good
1/1/2024, 12:16:00 PM	57.39	192	Good
1/1/2024, 12:17:00 PM	49.35	192	Good
1/1/2024, 12:18:00 PM	57.68	192	Good
1/1/2024, 12:19:00 PM	43.30	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	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	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	0.00	192	Good
1/1/2024, 11:15:00 AM	1.00	192	Good
1/1/2024, 11:16:00 AM	0.00	192	Good
1/1/2024, 11:17:00 AM	0.00	192	Good
1/1/2024, 11:18:00 AM	0.00	192	Good
1/1/2024, 11:19:00 AM	0.00	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	0.00	192	Good
1/1/2024, 11:23:00 AM	1.00	192	Good
1/1/2024, 11:24:00 AM	0.00	192	Good
1/1/2024, 11:25:00 AM	0.00	192	Good
1/1/2024, 11:26:00 AM	1.00	192	Good
1/1/2024, 11:27:00 AM	0.00	192	Good
1/1/2024, 11:28:00 AM	1.00	192	Good
1/1/2024, 11:29:00 AM	1.00	192	Good
1/1/2024, 11:30:00 AM	1.00	192	Good

1/1/2024, 11:31:00 AM	0.00	192	Good
1/1/2024, 11:32:00 AM	0.00	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	1.00	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	1.00	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	0.00	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	1.00	192	Good
1/1/2024, 11:46:00 AM	1.00	192	Good
1/1/2024, 11:47:00 AM	1.00	192	Good
1/1/2024, 11:48:00 AM	1.00	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	1.00	192	Good
1/1/2024, 11:57:00 AM	1.00	192	Good
1/1/2024, 11:58:00 AM	0.00	192	Good
1/1/2024, 11:59:00 AM	1.00	192	Good
1/1/2024, 12:00:00 PM	1.00	192	Good
1/1/2024, 12:01:00 PM	1.00	192	Good
1/1/2024, 12:02:00 PM	0.00	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	0.00	192	Good
1/1/2024, 12:13:00 PM	0.00	192	Good
1/1/2024, 12:14:00 PM	1.00	192	Good
1/1/2024, 12:15:00 PM	0.00	192	Good
1/1/2024, 12:16:00 PM	1.00	192	Good
1/1/2024, 12:17:00 PM	1.00	192	Good
1/1/2024, 12:18:00 PM	0.00	192	Good
1/1/2024, 12:19:00 PM	0.00	192	Good

Statistical Summary

Tag	Min	Max	Average	Std Dev	Quality %
FLOW_01	42.11	57.79	49.09	8.00	100.0%
PUMP_STATUS	0.00	1.00	0.54	0.50	100.0%