

Dataset Analysis Report

Test Equipment Dataset

Test dataset for equipment API validation

File Name	test_equipment_db.csv
File Type	CSV
Upload Date	2026-01-26 13:37:59
Total Rows	10
Total Columns	7
File Size	537 bytes
Processing Status	Processed

Dataset Overview

Columns:

#	Column Name	Data Type
1	equipment_id	object
2	equipment_type	object
3	flowrate	float64
4	pressure	float64
5	temperature	float64
6	location	object
7	status	object

Operational Metrics

Metric	Value
Total Records	10
Average Flowrate	127.74
Average Pressure	44.80
Average Temperature	83.25
Missing Values	0

Detailed Operational Analysis:

Flowrate:

- Average: 127.74
- Median: 157.75
- Std Deviation: 81.60
- Min: 0.00
- Max: 220.80
- Count: 10
- Missing Count: 0

Pressure:

- Average: 44.80
- Median: 46.60
- Std Deviation: 14.41
- Min: 25.00
- Max: 65.20
- Count: 10
- Missing Count: 0

Temperature:

- Average: 83.25
- Median: 82.65
- Std Deviation: 7.45

- Min: 72.00
- Max: 95.50
- Count: 10
- Missing Count: 0

Equipment Analysis

Equipment Type	Count	Percentage
Pump	3	30.0%
Compressor	3	30.0%
Valve	2	20.0%
Heat Exchanger	2	20.0%

Data Quality Assessment

Quality Metric	Value
Total Rows	10
Complete Rows	10
Missing Data %	0.00%
Columns with Missing Data	0

Report Information

Report generated on: 2026-01-26 13:51:22

Dataset ID: 4

Analysis performed using Django Dataset Analysis API

This report reflects the computed summaries and statistics for the uploaded dataset.