Willkommen!

Current Value Overview

Temperature (°C)	Humidity (%)	Pressure (atm)	Distance (cm)
29.3	58.88	0.9986	3.27

Latest Forecast Overview

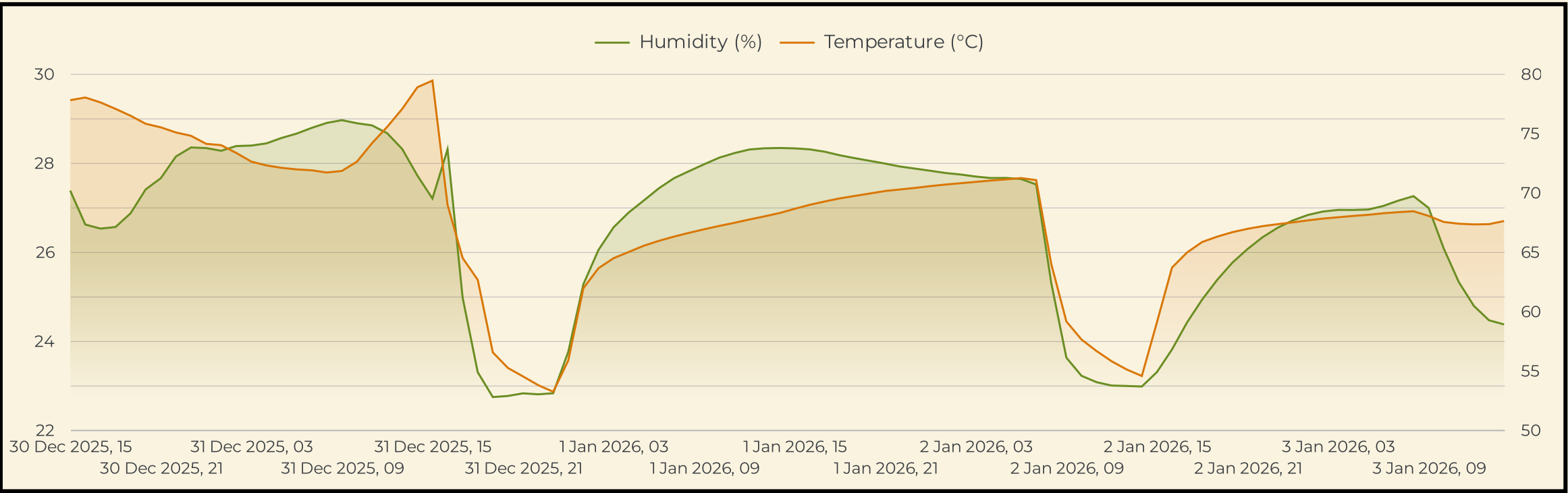| Temperature (°C)	Humidity (%)	Pressure (atm)	Distance (cm)
27.83	83.25	1.01	2.95

Humidity (%) and Temperature (°C) Dual Line Chart

Navigation Button

Temperature (°C)	Humidity (%)	Pressure (atm)	Distance (cm)	AI Summary

ESP32 Sensor Data Dashboard

Last Refresh Data
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Select date range ▾

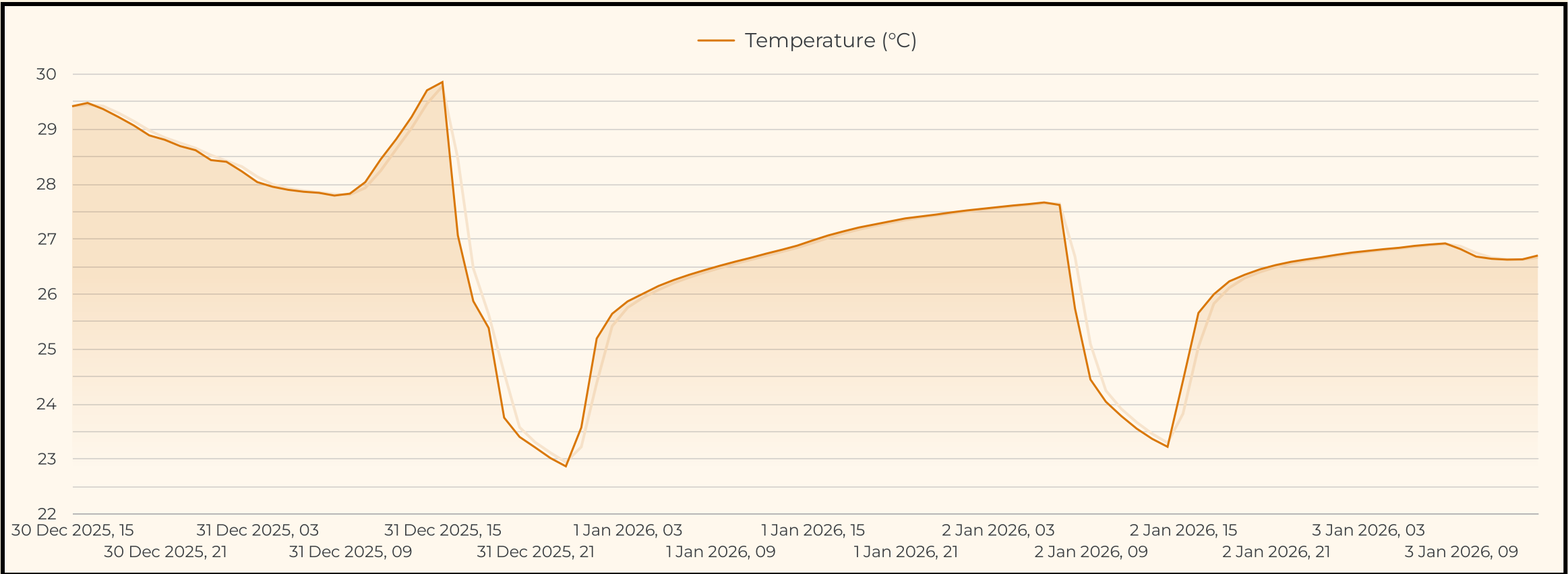## Temperature (°C) Data Scorecard

Current Value	Max Value	Min Value	Daily Average
26.69	29.85	22.83	26.79

Temperature (°C) Time Series

Latest Temperature (°C) Forecast Data Scorecard

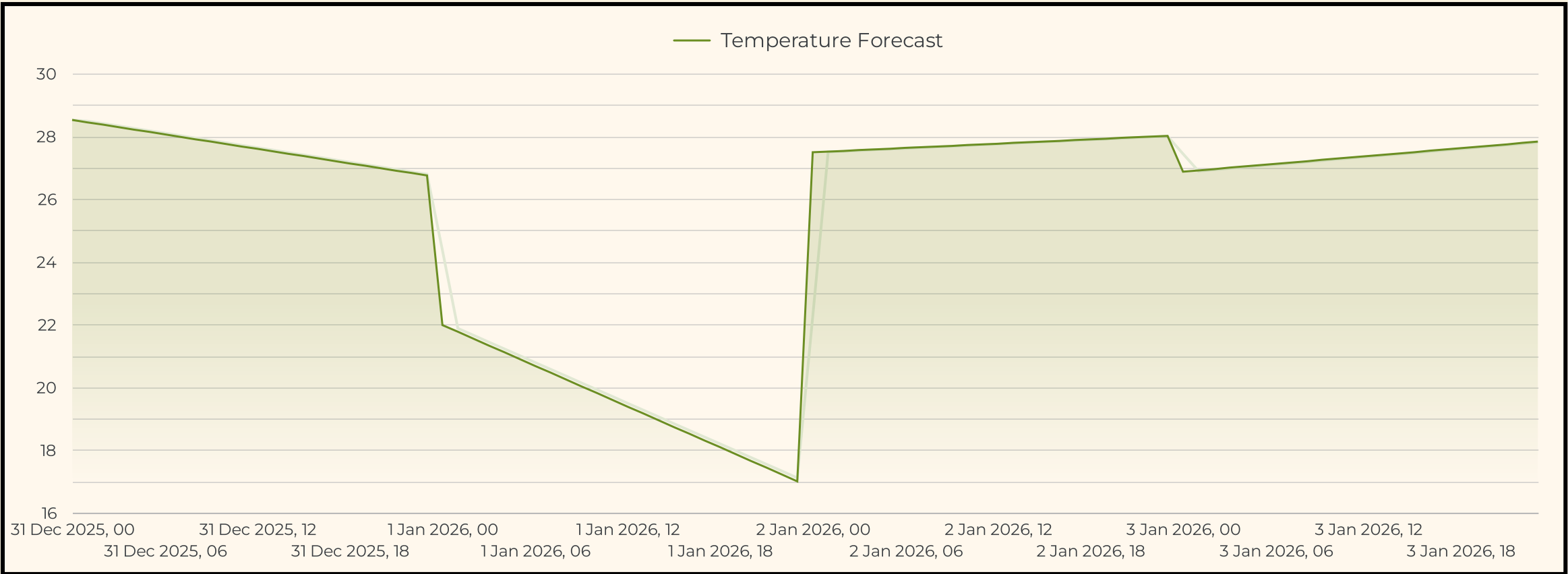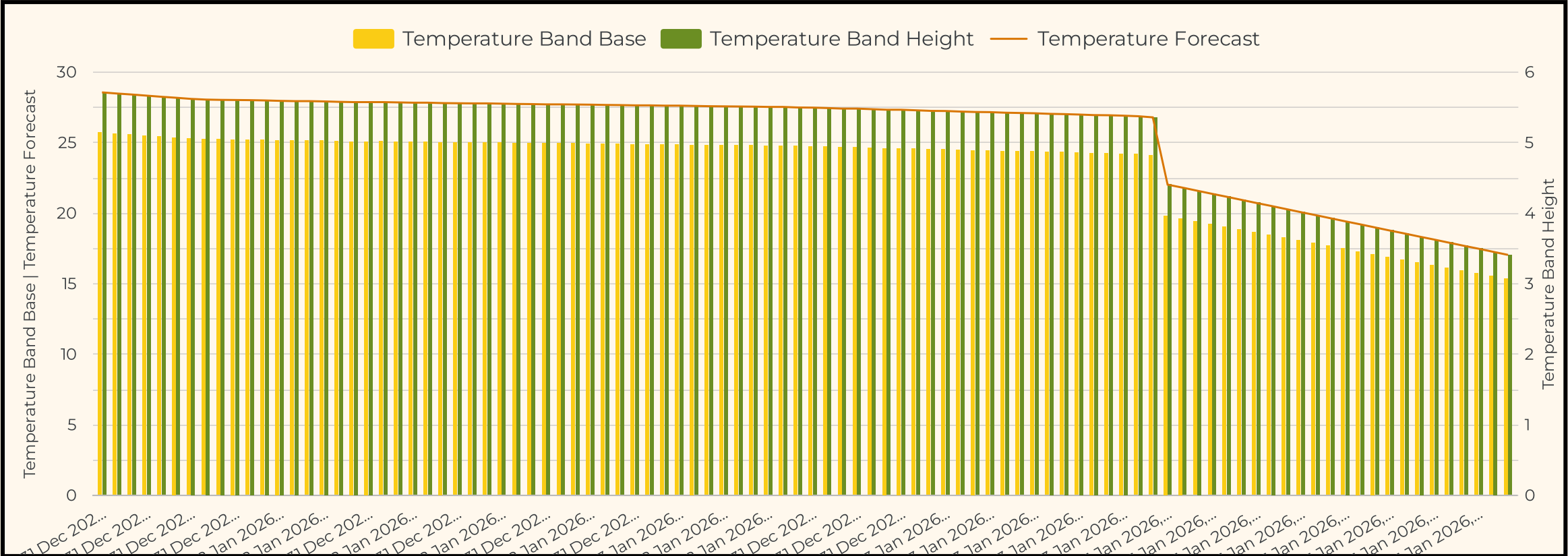| Data Forecast	Upper Bound	Lower Bound
27.83	30.61	25.04

Temperature (°C) Forecast Time Series

Temperature (°C) Forecast Confidence Interval Bands

Home	Humidity (%)	Pressure (atm)	Distance (cm)	AI Summary

Humidity (%) Data Scorecard

Current Value	Max Value	Min Value	Daily Average
58.88%	76.09%	52.74%	67.50%

Humidity (%) Time Series

— Humidity (%)

Latest Humidity (%) Forecast Data Scorecard

Data Forecast	Upper Bound	Lower Bound
83.25	91.58	74.93

Humidity (%) Forecast Time Series
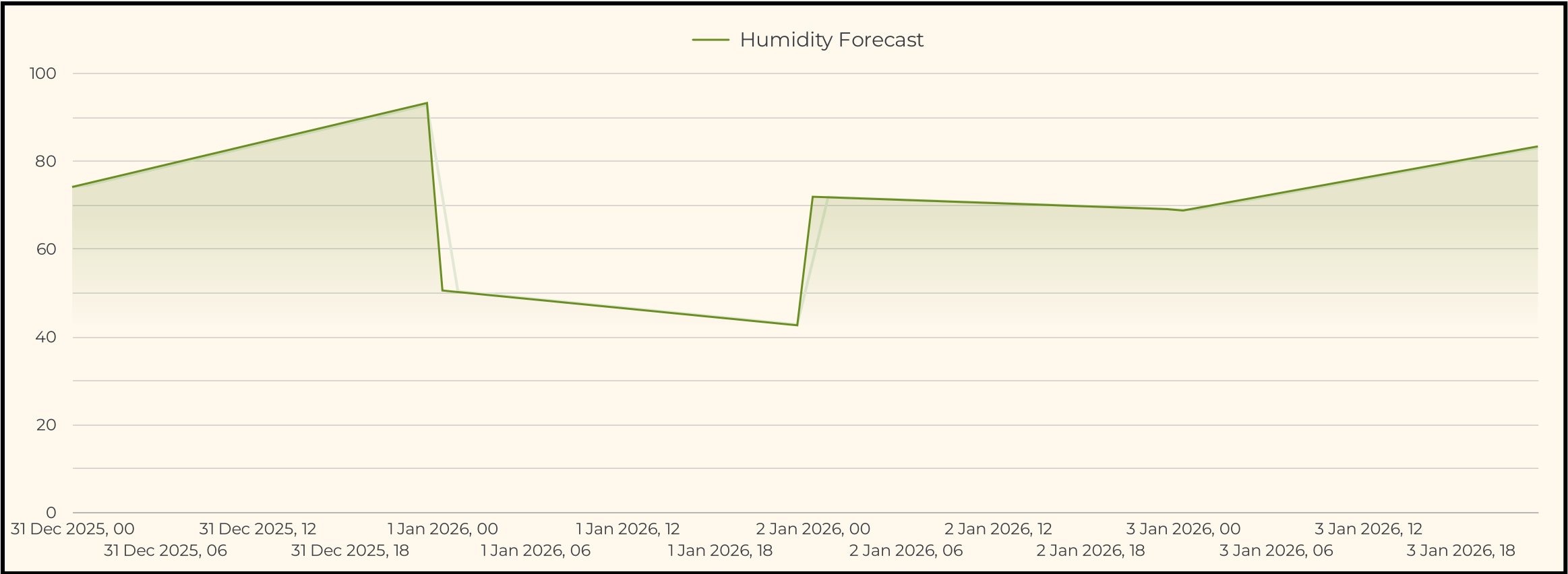
— Humidity Forecast

Humidity (%) Forecast Confidence Interval Bands

■ Humidity Band Base ■ Humidity Band Height — Humidity Forecast
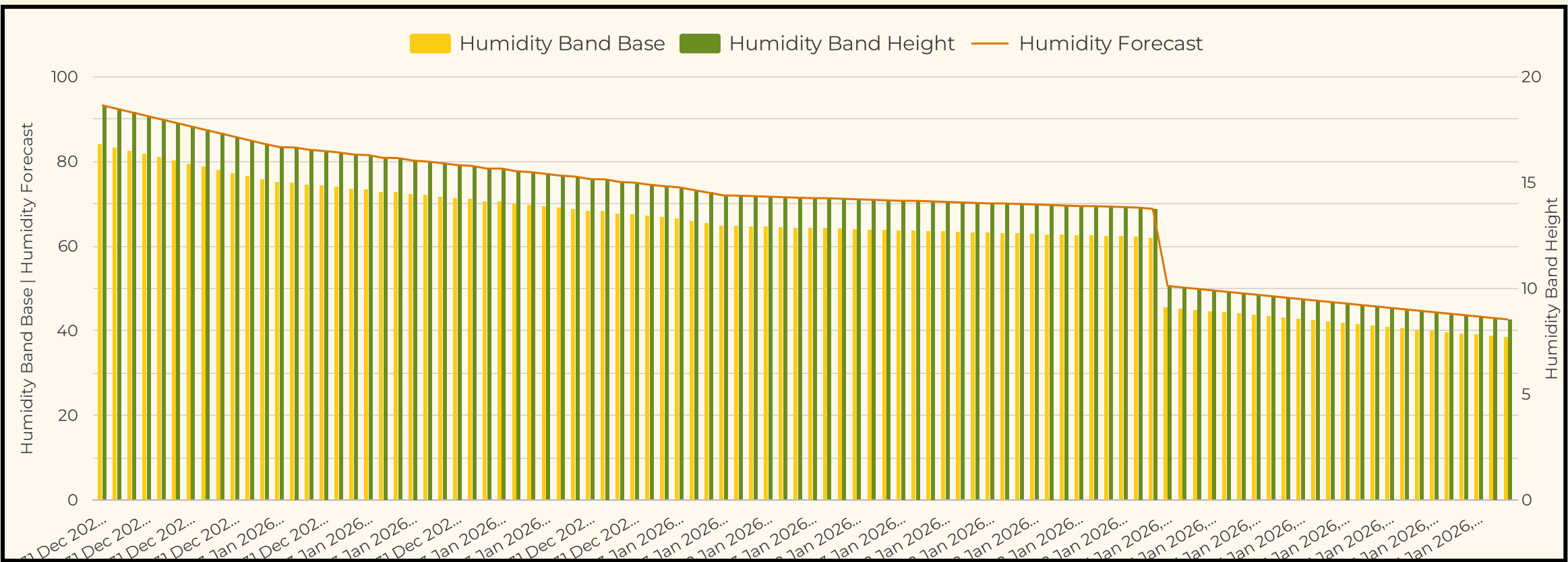
| Home | Temperature (°C) | Pressure (atm) | Distance (cm) | AI Summary |

ESP32 Sensor Data Dashboard

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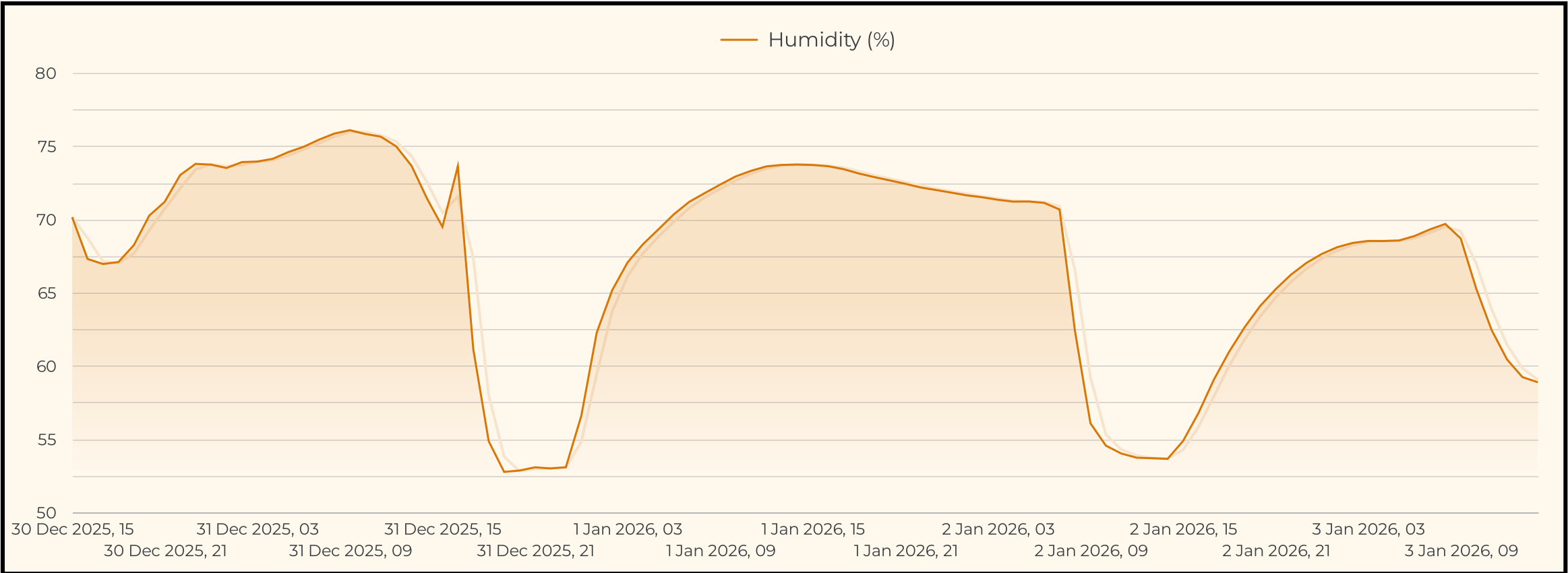## Pressure (atm) Data Scorecard

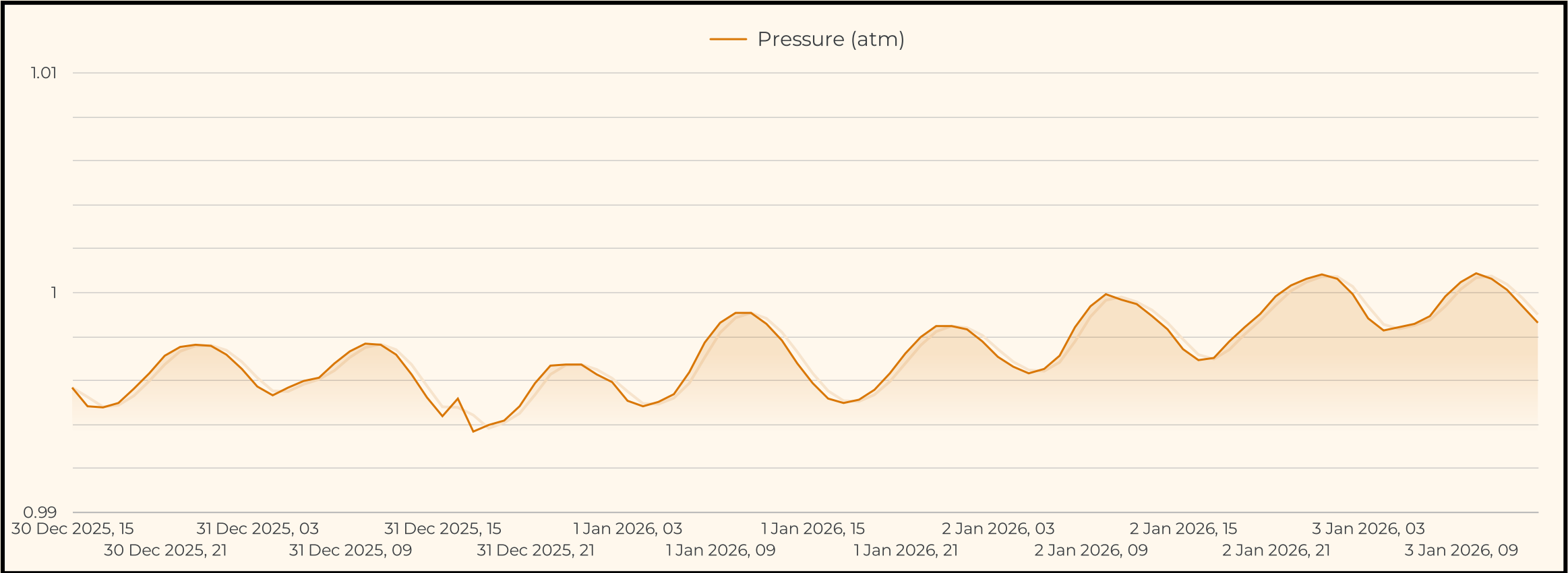| Current Value	Max Value	Min Value	Daily Average
0.9986	1	0.99	1

Pressure (atm) Time Series

— Pressure (atm)

Latest Pressure (atm) Forecast Data Scorecard

Data Forecast	Upper Bound	Lower Bound
1.01	1.11	0.91

Pressure (atm) Forecast Time Series
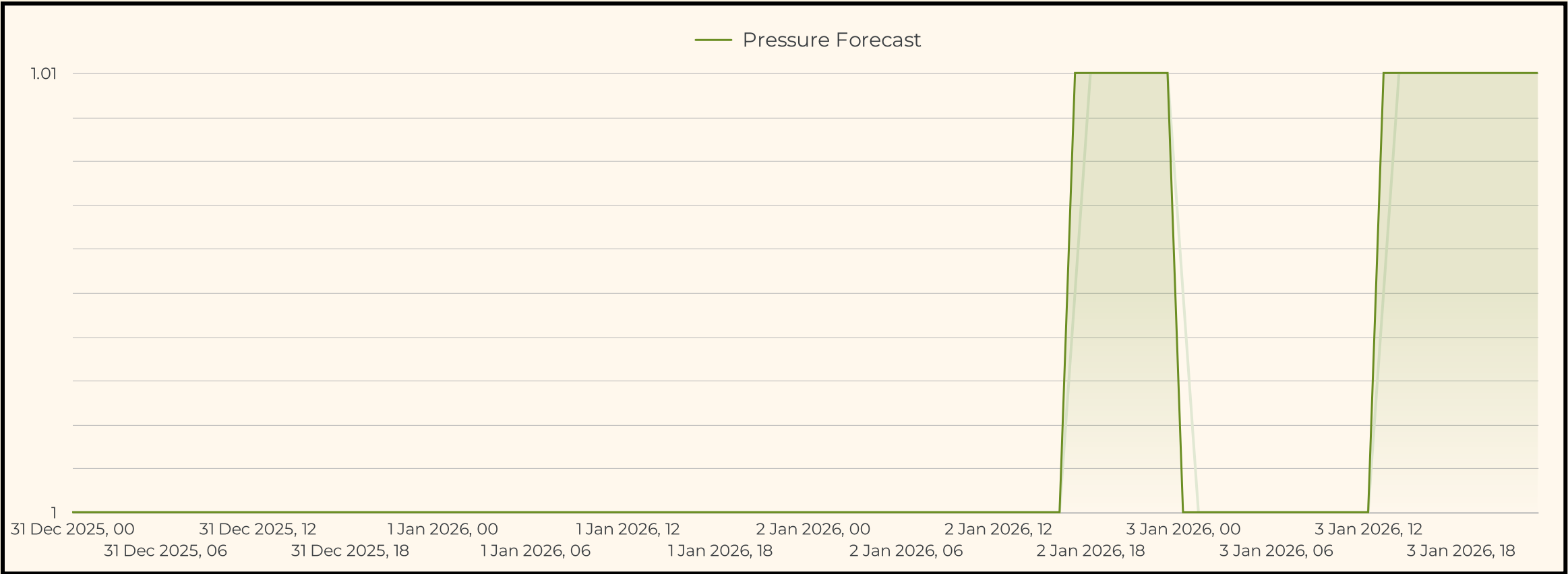
— Pressure Forecast

Pressure (atm) Forecast Confidence Interval Bands

▇ Pressure Band Base ▇ Pressure Band Height — Pressure Forecast
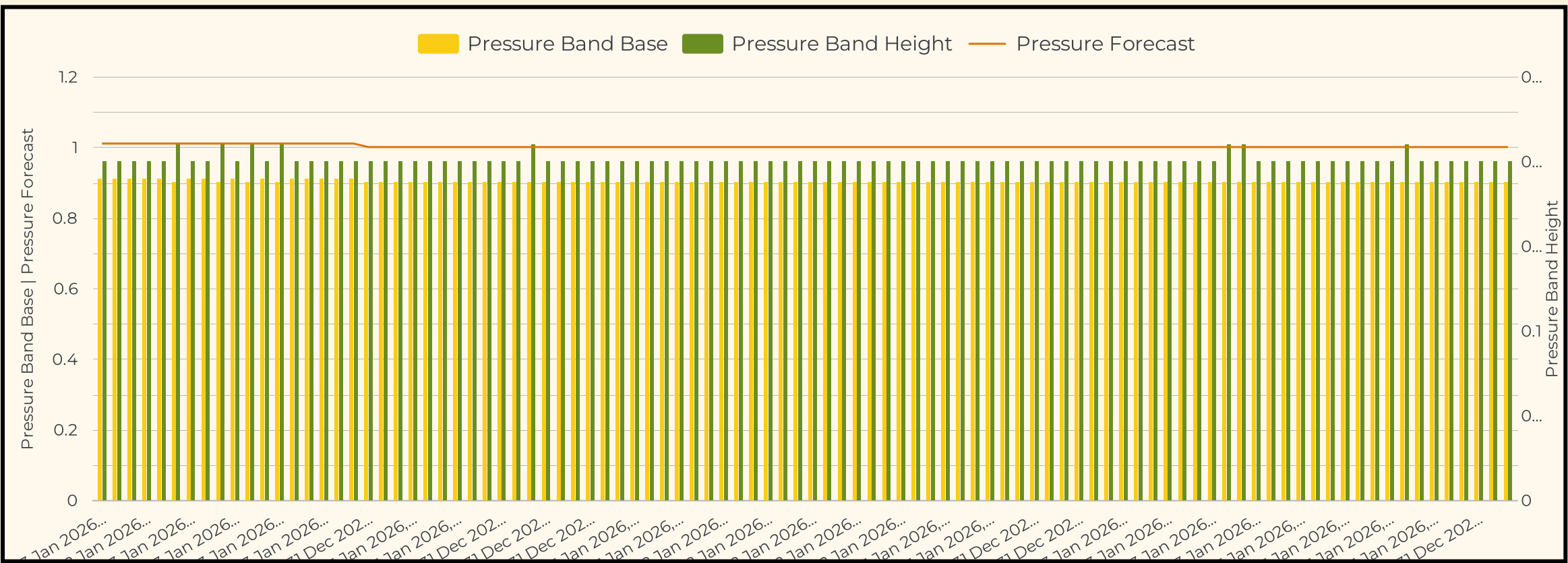
Home	Temperature (°C)	Humidity (%)	Distance (cm)	AI Summary

ESP32 Sensor Data Dashboard

Last Refresh Data
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Select date range ▾

Distance (cm) Data Scorecard

Current Value	Max Value	Min Value	Daily Average
3.27	59.45	1.98	7.66

Distance (cm) Time Series
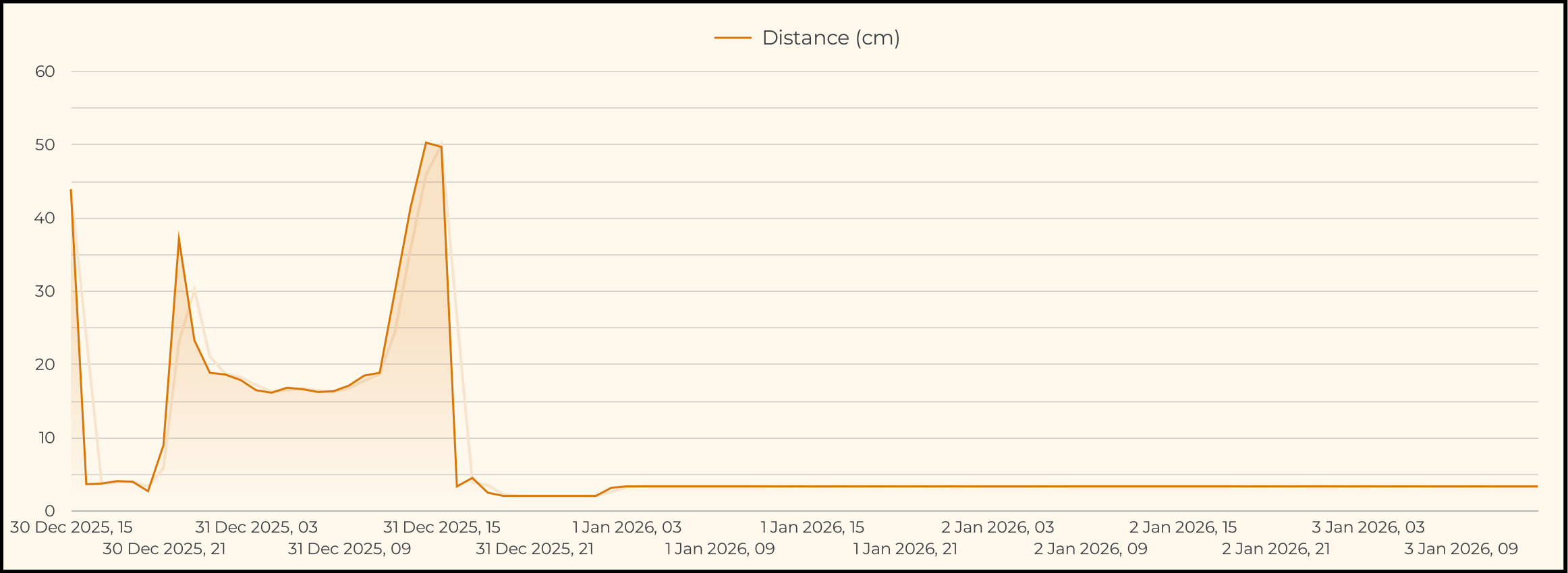
Latest Distance (cm) Forecast Data Scorecard

Data Forecast	Upper Bound	Lower Bound
2.95	3.24	2.65

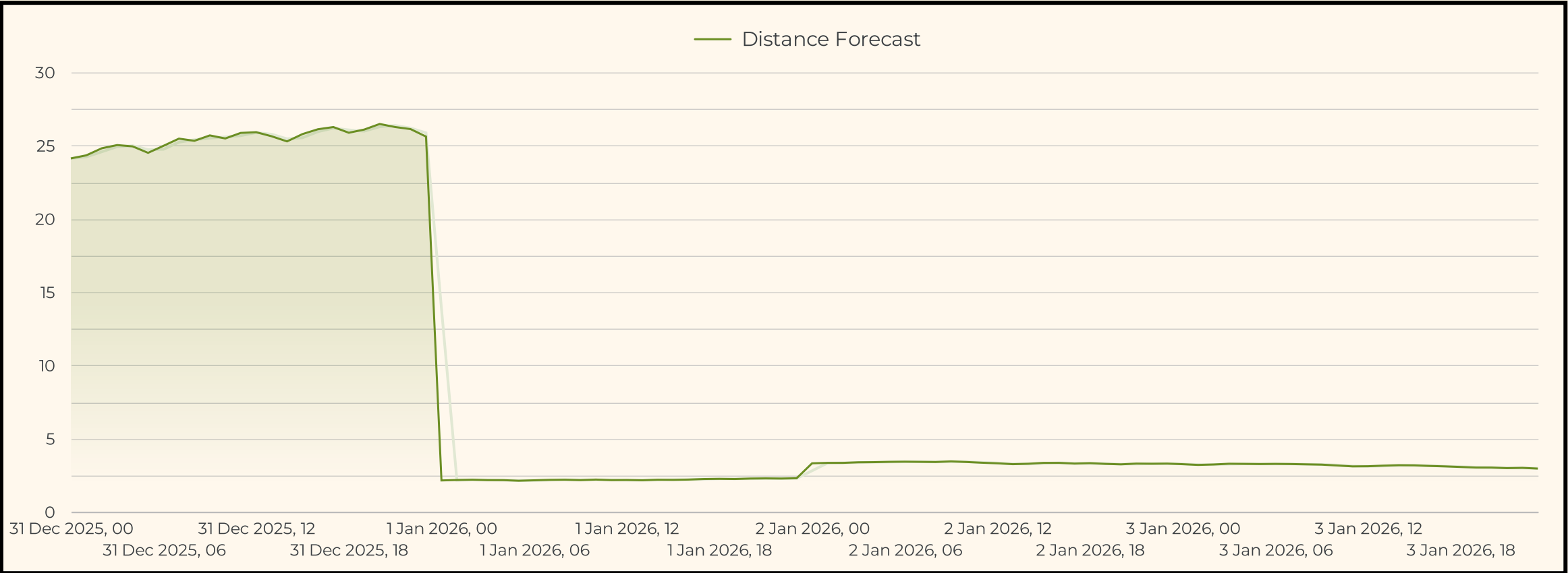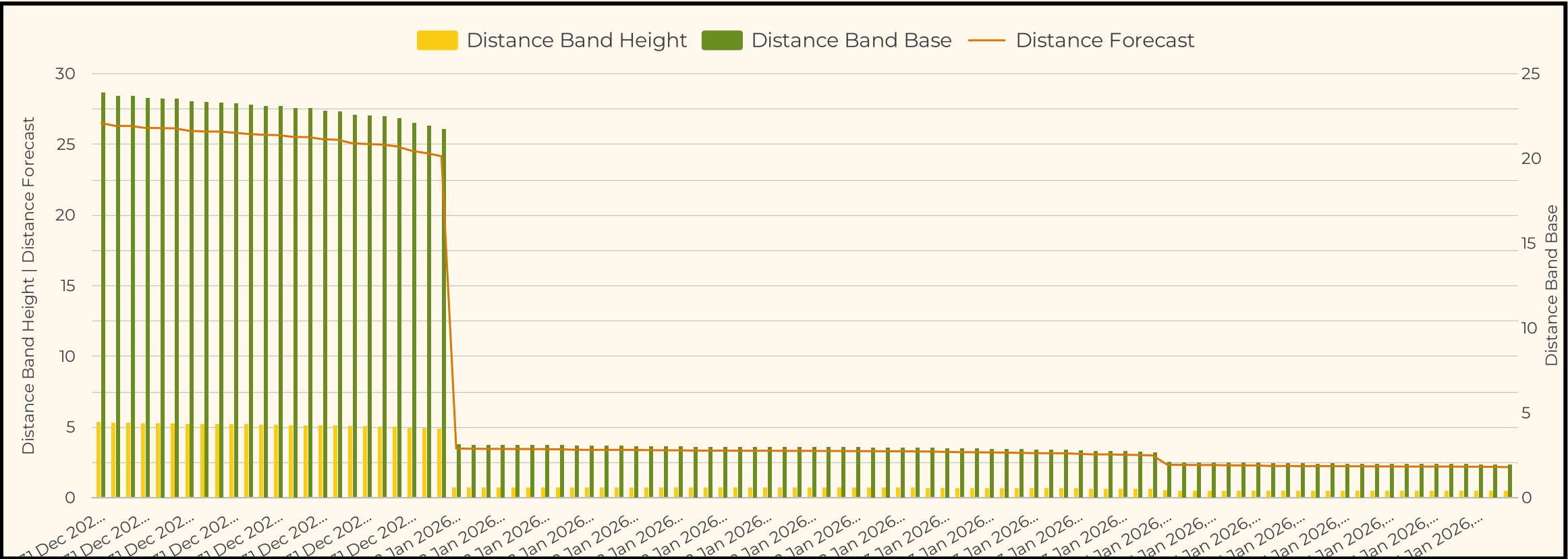## Distance (cm) Forecast Time Series

Distance (cm) Forecast Confidence Interval Bands

| Home | Temperature (°C) | Humidity (%) | Pressure (atm) | AI Summary |

Last Refresh Data

3 Jan 2026, 14:45:34

Select date range ▾

Gemini AI Real Time Data Analysis

Here's an analysis of the sensor data:

Sensor Type	Combined Summary
Timestamps	3 days of data (Dec 30 15:05 to Jan 2 15:51 SGT), recorded consistently ~30-minute intervals, providing regular, high-frequency environmental sampling.
Temperature	Diurnal cycles (27.78-29.85°C) precede a sharp Dec 31 drop from 29.85°C to 22.83°C. Recovery with overnight dips suggests active localized cooling or environmental system activation.
Humidity	Humidity inversely correlates with temperature (52.74-76.09%). A significant Dec 31 drop (69.16% to 52.74%) mirrors temperature, strongly implying a drying event, likely environmental controls.
Pressure	Minimal pressure fluctuation (0.9936-0.9999) with gentle diurnal patterns. Stability suggests localized temperature/humidity changes, not broad atmospheric shifts.
Distance	Initially dynamic (2.71-59.45), distance sharply dropped from 51.1 to 1.98 on Dec 31, coinciding with environmental shifts. It then stabilized at ~3.28, indicating an object moved close and remained fixed.

Gemini AI Trend Analysis

An executive summary of sensor data from December 30, 2025, to January 02, 2026, reveals distinct environmental shifts. Temperature fluctuated within typical diurnal cycles, ranging from a minimum of 22.83°C to a maximum of 29.85°C. Notably, two sharp temperature drops occurred on Wednesday evening and Friday afternoon, mirrored by inverse shifts in humidity, which reached a high of 76.09% and a low of 52.74%. Pressure remained relatively stable, hovering between 0.9936 and 0.9999 with minor daily variations, showing no significant anomalies.

The "Distance" sensor exhibited the most pronounced trend change. After initial erratic readings, peaking at 59.45 units, it stabilized dramatically to a consistently low range (1.98-3.28 units) for the final two days of observation. This abrupt shift from variability to extreme stability suggests a significant change in the monitored object's position or the immediate environment.

Gemini AI Predictive Insight

For the 24-hour period beginning Wednesday, December 31, 2025, in Singapore, expect a day of gradually cooling temperatures and significantly rising humidity. Starting around 28.5°C, temperatures will steadily decline to approximately 26.8°C by late evening. Humidity, however, will surge from 74% to over 93%, indicating increasingly muggy conditions and a heightened potential for precipitation, especially as the day progresses. Atmospheric pressure is forecast to remain stable, suggesting no major weather system movements. 'Distance' (likely visibility) will see minor fluctuations, generally remaining between 24 and 26 units, pointing to consistent ambient conditions.

A critical environmental shift is projected immediately following this 24-hour window. Overnight into January 1st, temperatures are set to dramatically drop to around 21°C and continue falling, paired with a sharp decrease in humidity to below 50% and a substantial reduction in 'distance' to just 2 units, signaling a sudden, significant change in weather.

Home | Temperature (°C) | Humidity (%) | Pressure (atm) | Distance (cm)