

Smart Hen House Laying-hen climate control

Protect your flock by the hen's own heat index

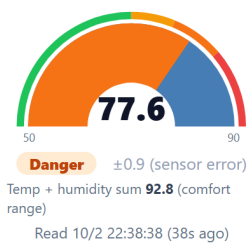
Temperature & humidity sensing, 7-day forecast, control rules and remote switching — all connected to AI Bridge chat. When something happens your phone knows at once, with advice that cites its source.

Comfortable for you, stressful for hens 25°C and 85% humidity feels fine to people, but a laying hen's heat index THI is already **75.6 (Danger)**. Hens cool down by panting, and humidity makes that harder — judging by feel is often too late.

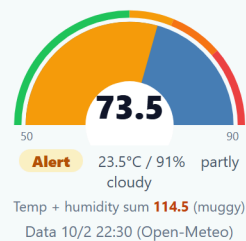
① Live monitoring, from the hen's view

Laying-hen THI formula (temperature + wet-bulb); indoor sensors and outdoor weather side by side, in four colour-coded levels.

Heat index THI (laying hens)



Outdoor THI Xincheng, Hualien



② Test rules on past data first

Test a rule on past data first: over the same 7 days, one threshold flips the fan **56 times**; adding a duration and a release threshold cuts it to **3**.

Last 7 days: "indoor THI" has data about 80% of the time (starting 9/27 00:12; no data before that)

Result: this rule triggers **2 times**, 45 h 30 min in total, shortest 3 h 23 min, still triggered now.

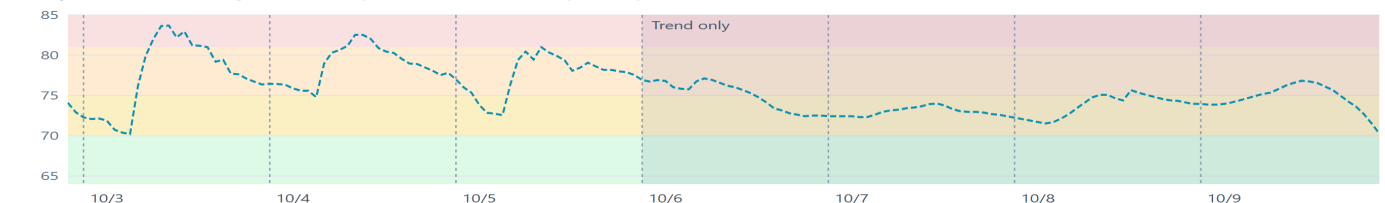
comparison: with a single threshold of 78.5 and no duration, the same data would switch **56 times**; with this rule as set **3 times** (trigger + release).



③ 7-day forecast + weather risk alerts

Heat stress, cold snaps, hot-humid spells — with disease risks flagged from the knowledge base. Days 1–3 are more accurate; later days are trend only.

7-day forecast (outdoor, Xincheng, Hualien; forecast updated 22:21; tomorrow's forecast pushed daily at 18:00)



How Smart Hen House and AI Bridge chat work together

On-site devices

Temp/humidity sensors
 Smart switches (vent · curtain · fan)

MQTT / HTTP

Smart Hen House

Live monitor · 7-day forecast
 Control rules (run on site)

Alerts / SSO

AI Bridge chat

Phone alerts · one-click login
 AI knowledge base

Alerts to your phone Sensor alarms, rule suggestions, tomorrow's forecast at 18:00 and switch logs go to the chat's "System notifications".

Advice with sources Based on the Hendrix hot-climate guide and egg-production notes. AI only drafts; a person confirms.

One-click login Tap the "Smart Hen House" skill in chat to open the monitor — no password (SSO).

Remote switching Switch devices from your phone — confirmation code, lock-out on wrong codes, every action logged.

Runs on site — works offline

Advisory mode first — people decide

No PLC — replace only what breaks

※ Real system screens (indoor values: test bench; outdoor: Xincheng, Hualien weather data)

UI: 中文 · English · 日本語

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