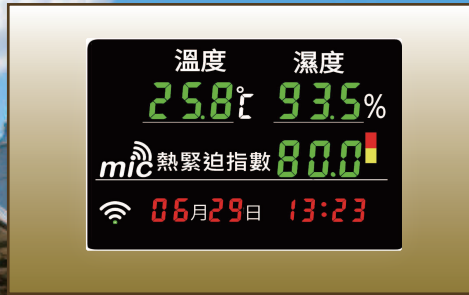




LIVESTOCK INTEGRATED CONTROL SYSTEM



Temp.RH%.
dashboard



Heat stress,
Ammonia monitor



Temp.RH%.
dashboard



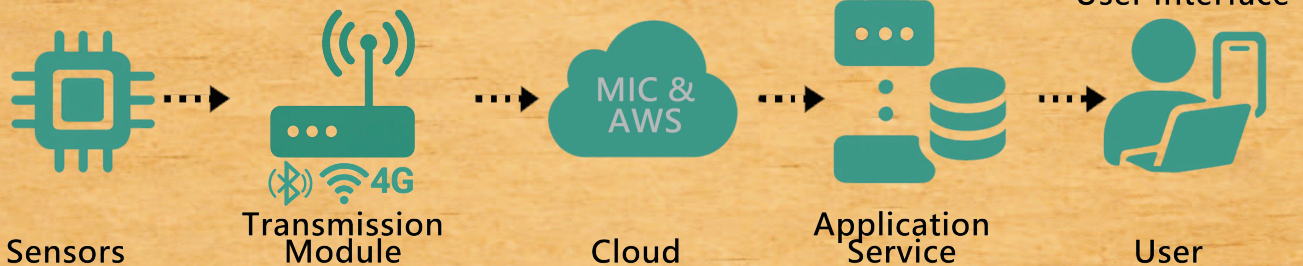
Thermo-hygro
Heat Stress



Milk Storage Tank
Temp. monitor

(IoT Devices) System Architecture

23.5°C
52% RH



MIC METER INDUSTRIAL COMPANY

Address: No.115 2ND STREET LONG-ZHEN NAN TUN DISTRICT TAICHUNG CITY TAIWAN

TEL: 886+4+23751881 www.meterindco.com.tw web@meterindco.com.tw

LIVESTOCK FARM ENVIRONMENTAL MONITORING (AMMONIA)

(Handheld / Probe Type / Online / A3 LED Display Board)



Applications | Cattle • Pig • Poultry Houses (Closed / Semi-closed)
Real-time monitoring of ammonia concentration and temperature & humidity. View data remotely on mobile, store records in the cloud, and receive instant LINE alerts when thresholds are exceeded. Integrates with ventilation/exhaust control systems to improve air quality, protect animal health, and enhance productivity—while safeguarding workers.






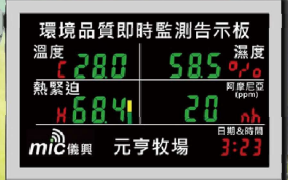
Why Monitor Ammonia (NH₃)?

- Manure fermentation generates ammonia that irritates eyes and respiratory systems and reduces growth performance.
- Poultry houses: NH₃ reacts with moisture in eyes to form ammonia water → keratitis & conjunctivitis → reduced feed intake → lower growth and egg-laying rates.
- Pig & cattle houses: respiratory irritation, reduced immunity, lower feed efficiency and milk yield/weight gain.
- Smart management: real-time mobile monitoring + instant LINE alerts enable immediate ventilation response.



IoT AMMONIA MONITORING

AIoT Ammonia Monitoring

			
Measured Parameters	NH ₃ (Ammonia), Temperature, Relative Humidity		
NH ₃ Measurement Range	0.0 – 50.0 ppm		
NH ₃ Accuracy	±5% F.S		
Temperature Range	0.0 – 50.0 °C		
Temperature Accuracy	±0.6 °C		
Humidity Range	0.0 – 99.9 %RH		
Humidity Accuracy	±3%RH (25°C, 10–70%RH)		
Alarm	User-configurable threshold (buzzer / LINE notification, model dependent)		
Data Access	On-device display / Mobile APP / Cloud platform (model dependent)		
Connectivity	WiFi (for WiFi models)		
Model Type	Handheld / Wall-mount / Hanging / A3 LED wall display		
Power Supply	Battery or DC power (model dependent)		
Applications	Cattle barns, pig houses, poultry houses		
Model Type	Key Features		
Handheld Meter	Portable patrol inspection, quick spot checks, tripod mount		
WiFi Probe Sensor	Fixed-point continuous monitoring, automatic cloud upload		
WiFi A3 LED Display Board	Large on-site visual display for easy management		
Online WiFi Fixed Monitor	24/7 monitoring; integrates with ventilation & electrical control systems		