sub:net/k

SOLUTION GUIDE

Process temperature

Catch the drift before it becomes scrap.

Used in Manufacturing

THE PROBLEM TODAY

Furnaces, ovens, kilns and reactors checked by hand on a round. A drifting setpoint is found when a batch fails QA — or when the customer finds it.

WITH SUBNETIK MONITORING

Process temperatures logged continuously, with drift flagged before it becomes scrap and a temperature record for every batch.

1 HOW IT FITS TOGETHER

SENSOR	LoRaWAN radio	GATEWAY	Ethernet / 4G	NETWORK SERVER	Secure cloud	DASHBOARD	Rules	YOU
EM500-PT100		**Milesight UG65**		**LORIOT**		**ThingsBoard**		**Instant alert**
Battery, no cabling		Covers the site		Secure device network		Live view & history		SMS · WhatsApp · email

2 CHOOSE YOUR SENSOR

RECOMMENDED



Milesight EM500-PT100

Industrial PT100 sensor

Best for: Ovens, furnaces and kilns — industrial PT100 probes up to +800°C.

RANGE	BATTERY	RATING	PROBE
−200 to +800°C	Up to 10 yrs	IP67	1.5 m lead

OR, DEPENDING ON YOUR SITE



Watteco PT1000

PT1000 RTD transceiver

Choose when: You need laboratory-grade accuracy (±0.15°C) on hot-water, oven or process lines up to +240°C.

±0.15°C accuracy · probes up to 5 m away



Netvox R718CKAB

Thermocouple sensor (Type K)

Choose when: Surface temperatures on pipes, motors and housings — a thermocouple held on by magnet.

Surface temperatures to 375°C · magnetic mount

3 WHERE TO FIT IT

1. **Probe in an existing thermowell or port**
   No new holes in the vessel where possible.
2. **Sensor mounted outside the heat zone**
   The probe lead carries the reading out.
3. **One per zone that affects quality**
   Each oven zone, kiln chamber or reactor jacket.

4 PICK YOUR GATEWAY

SMALL SITE	BUILDING (TYPICAL FOR THIS)	OUTDOOR
UG63	**UG65**	**UG67**
Shop, villa, one floor	Tower, hotel or plant	Community, yard, campus

One gateway serves every sensor on site — confirmed by a short survey.

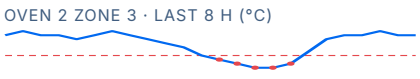
5 WHAT YOU'LL SEE

Sharjah Plant — Curing ovens — ThingsBoard · illustrative

- Oven 2 · Zone 3
- Oven 2 · Zone 1
- Oven 2 · Zone 2
- Oven 1 · All zones

Zone 3 below setpoint
Oven 2 · 172°C (target 180°C)
Assigned to: Process engineer

OVEN 2 ZONE 3 · LAST 8 H (°C)



⚠ Zone 3 below setpoint
Oven 2 · 172°C (target 180°C)

✓ Burner fault fixed · 14:05
Batch held, nothing shipped.

SMS · WhatsApp · Email

Prove it on your own site

We scope a pilot around this problem and configure everything for you.

Talk to Subnetik

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