

## Temperature monitoring for water jacket

**Region:** North America  
**Industry:** Steel  
**Products:** YTMX580 (Multi-Input Temperature Transmitter)  
 YFGW510 (Field Wireless Access Point)  
 YFGW410 (Field Wireless Management Station)



### Requirements

Customer needed efficiency improvement of steel manufacturing by temperature monitoring for heat/cooling equipment.

Previous system required periodic compensation lead changing.

### Challenge

Severe environment.

- High temperature
- Strong electrical noise

### Solution

Wireless multi channel temperature transmitters were introduced.

Yokogawa plant-wide field wireless system was selected for its high reliable communication and flexibility.



### Equipment List

YFGW410 x 2

YFGW510 x 3

YTMX580 x 20

High gain antenna (6 dBi)

Remote antenna cable (3 meters)

### Benefits

Improved product quality by accuracy enhancement of measurement.

Reduced compensation lead changing work.



## Conclusion

Product quality was improved by accuracy enhancement of temperature measurement.

Wireless temperature measurement equipment is less affected by electric noise compared to wired equipment using long compensation lead.

Maintenance time and cost for compensation lead changing work was drastically reduced.

YTMX580 eight channel temperature transmitter enabled cost effective system configuration.



YTMX580 Multi-Input Temperature Transmitter