



Field Wireless

Building a wireless future to last



Multi-Input Temperature Transmitter



ISA100 Wireless



YTMX580

Easy Setup: Field Wireless

- Cut back on troublesome wiring, reducing setup costs.
- Traditional wired connections can easily be switched to a wireless solution.

ISA100.11a*1 International Wireless Communication Standard

- Advanced encryption maintains communication security.
- Multi-vendor communication supports transmitters from a variety of manufacturers.

Reliable, Fast, 8-ch Multipoint Measurements

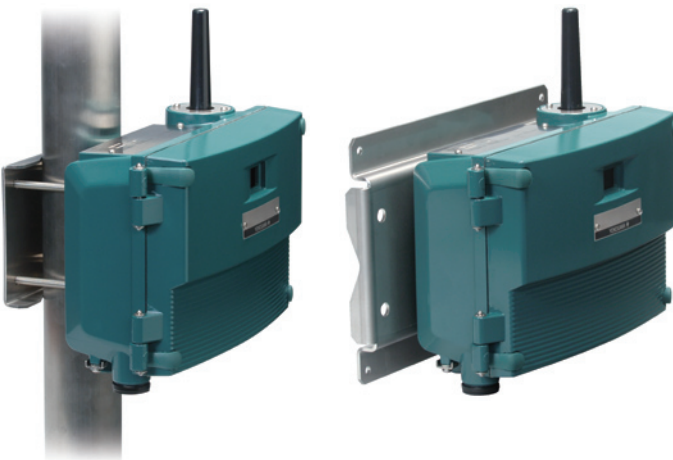
- 8 ch isolated universal input:
Perfect for multipoint measurement applications.
- High performance measurements with intervals as fast as 1sec (3ch), or 2sec (8ch).
- Superb environmental tolerance:
Operating temperature of -40 to 85°C (-40 to 185°F);
Protection level of IP66/IP67 & NEMA 4X.

Easy Battery Maintenance

- Battery life of up to 6 years (measuring at 60 second intervals on 8 ch).
- Battery packs can be swapped even in hazardous areas.*2

*1 Industrial wireless communication standard from the International Society of Automation (ISA).

*2 FM, CSA, ATEX, IECEx, TIIS intrinsically safe approval.(Pending)



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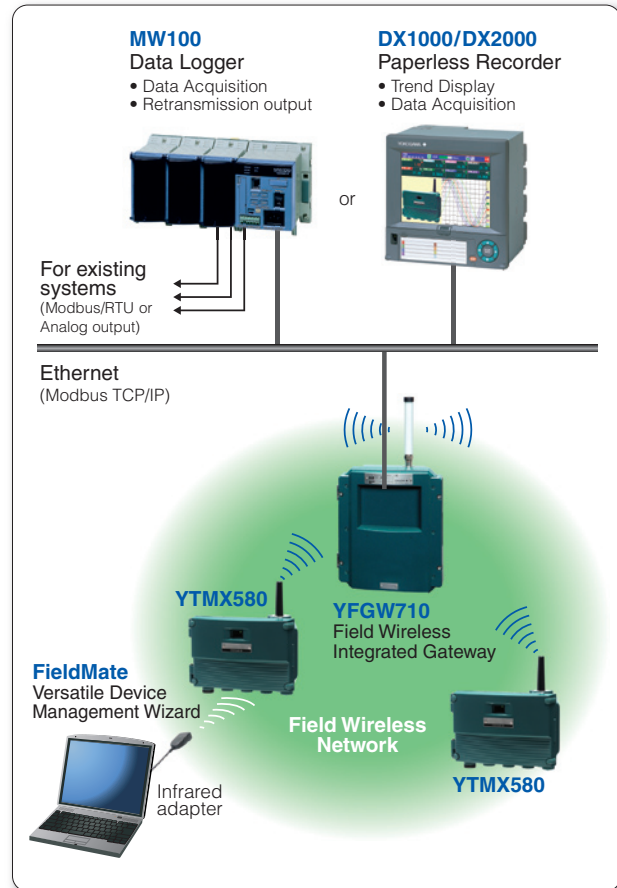


Specifications

Wireless Specifications	
Communication protocol	Based on ISA100.11a (IEEE802.15.4)
Frequency	2400 - 2483.5MHz
Data rate	250 kbps
RF Transmitter power	Max. 11.6dBm (Fixed)
Radio security	AES 128 bit codified
Antenna	+2 dBi Omni directional
Standard Specifications	
Accuracy	Please refer to GS 04R01B01-01EN
Battery life	Generally 6 years under the following conditions*1: update time 60 sec, device role I/O functions only, ambient temperature 23°C ±2°C, LED indicator off
Functional Specifications	
Input channels	8 points
Input signal	Thermocouples: B,E,J,K,N,R,S,T (IEC584) RTD: Pt100,Pt200,Pt500 (IEC751) 2-,3-, and 4-wire DCV: mV (-10 to 100mV), V (-0.01 to 1V) Ohm: Resistance 2-,3-, and 4-wire (0 to 2000Ω) Current*2: mA (4 to 20 mA, with external shunt resistors)
Update period	1 sec to 60min selectable (up to 2 seconds with 4 ch or more)
Power supply	Lithium thionyl chloride (size D×2) battery
Enclosure	IP66/IP67, NEMA Type 4X
Operating ambient temperature	-40 to 85°C (-40 to 185°F)
Certification / Conformity	
Explosion protect	FM,CSA,CENELEC ATEX(KEMA),IECEX,TIIS: intrinsically safe approva pending FM,CSA: Nonincendive (Class I) approval pending
EMC	EN61326-1 Class A Table 2 (For use in industrial locations), EN61326-2-3
Radio	R&TTE, FCC, IC, Japanese Radio Law

*1 Actual battery life will vary depending on operating temperatures, vibration, and other environmental factors.
*2 Does not support explosion proof standards.

System Configuration Example



Application Examples

Rotary Dryer/Kiln	Storage Tank/Vessel	Storage Warehouse	Water Treatment
<ul style="list-style-type: none"> Temperature Monitoring 	<ul style="list-style-type: none"> Temperature Profile Monitoring 	<ul style="list-style-type: none"> Temperature/Humidity Monitoring 	<ul style="list-style-type: none"> Switchover to wireless transmitters (4 to 20 mA output)

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