Rosemount™ 648 Wireless Temperature Transmitter Configuration Data Sheet

BOLD = Required value
★ = Default value

❍ Select only one of the items provided
❑ One or more of the listed items can be selected

Customer information

Customer: _____ Contact name: _____

Phone no.: _____ Fax no./email: _____

P.O./reference no.: _____ P.O. line item: _____

Quote no.: _____ Model no.:_____

Customer sign-off: _____

Tagging

Hardware tag:_____ (8 characters maximum)

Software tag: _____ (8 characters maximum)

Long software tag: _____ (32 characters maximum - *Wireless*HART® only)

Sensor configuration

Sensor tag |__|__|__|__|__|__|__|__| (0-16777215)[1]

Sensor type

- ◉ Pt 100 (α = 0.00385) IEC★
- ○ Pt 200 (α = 0.00385) IEC
- ○ Pt 500 (α = 0.00385) IEC
- ○ Pt 1000 (α = 0.00385) IEC
- ○ Pt 100 (α = 0.003916) JIS
- ○ Pt 200 (α = 0.003916) JIS
- ○ Ni 120 Edison Curve No. 7
- ○ Cu 10 Edison Copper Winding No. 15
- ○ Pt 50 (α = 0.00391) GOST
- ○ Pt 100 (α = 0.00391) GOST
- ○ Cu 50 (α = 0.00426) GOST
- ○ Cu 50 (α = 0.00428) GOST
- ○ Cu 100 (α = 0.00426) GOST
- ○ Cu 100 (α = 0.00428) GOST
- ○ Transmitter - Sensor Matching (C2 Option)
- ○ Type B NIST
- ○ Type E NIST
- ○ Type J NIST
- ○ Type K NIST
- ○ Type N NIST
- ○ Type R NIST
- ○ Type S NIST
- ○ Type T NIST
- ○ Type L DIN
- ○ Type U DIN
- ○ Type W5Re/W26Re ASTM
- ○ Type L GOST
- ○ mV
- ○ ohm
- ○ Not used

Measurement range

Upper range value (100%)

_____ (100 °C?)

Lower range value (0%)

_____ (0 °C?)

Units

- ◉ °C ★
- ○ °F
- ○ °R
- ○ K
- ○ Ohms
- ○ mV

Number of leads

- ○ 2-wire
- ○ 3-wire
- ◉ 4-wire ★

1. Default without sensor assembly is 0. Default with sensor assembly (XA) is sensor serial number.

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Self organizing network parameters

Wireless self-organizing devices employ configurable network parameters that allow users to manage network security. The best security practice is to order Wireless self-organizing devices with generated network parameters and enter customer network parameters during the onsite commissioning process upon receipt. This allows customers to best control network access and security.

◉ m Factory-generated network parameters ★

○ Customer network parameters

Network ID |__|__|__|__|__|(00000-32,000)

Join key[1] |__|__|__|__|__|__|__|__| -|__|__|__|__|__|__|__|__| - |__|__|__|__|__|__|__|__| -|__|__|__|__|__|__|__|__|

1. Exactly 32 hexidecimal digits, 0-9 and A-F.

Options

Custom configuration information below this line requires C1 option code.

Update rate

Update rate: _____ ◉ Seconds ○ Minutes

2.4 GHz DSSS *Wireless*HART update rate allows 1 second, 2 seconds, 4 seconds, 8 seconds, 16 seconds, 32 seconds, or 1 to 60 minutes. (1 minute?)

Transmitter information

Descriptor:_____(16 characters maximum)

Message: _____ (32 characters maximum)

Date:_____(DD/MM/YY; default is date of transmitter calibration.)

Rosemount X-well™ Technology temperature measurement configuration[1] (PT option required)

❍ Standard

Pipe material

◉ Carbon steel
○ Painted carbon steel
○ 304 stainless steel
○ 316 stainless steel

Pipe schedule

◉ 40
○ 80
○ 120

❍ Custom[2]

Pipe material: _____

Pipe schedule: _____

Pipe size: _____

Pipe conduction coefficient[3]:

_____(value must be between 0 and 1)

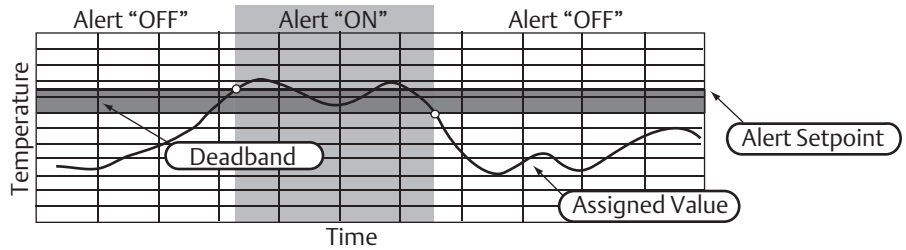
1. 3-wire sensor configuration required for Rosemount X-well Technology.

2. For custom configuration, consult factory with pipe material and pipe schedule for the appropriate pipe conduction coefficient.

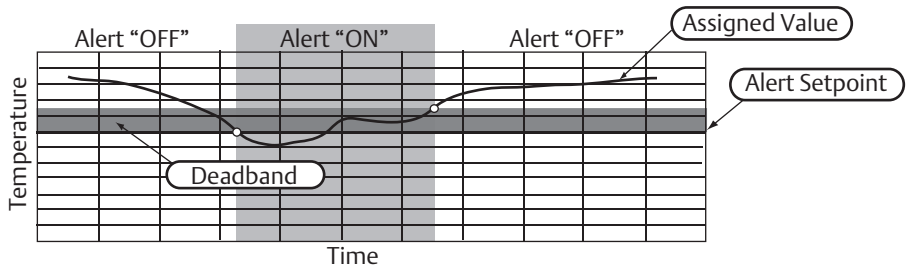
3. Internal use only.

Alert configuration			
HI-HI limit		HI limit	
Variable assigned:	Primary Variable	Variable assigned:	Primary Variable
Alert direction:	Rising	Alert direction:	Rising
Alert mode:	◉ Enabled ○ Disabled	Alert mode:	◉ Enabled ○ Disabled
Units:	◉ °C ○ °F ○ °R ○ K ○ mV ○ Ω	Units:	◉ °C ○ °F ○ °R ○ K ○ mV ○ Ω
Alert setpoint:	_____	Alert setpoint:	_____
Deadband:	_____	Deadband:	_____
LO-LO limit		LO limit	
Variable assigned:	Primary Variable	Variable assigned:	Primary Variable
Alert direction:	Falling	Alert direction:	Falling
Alert mode:	◉ Enabled ○ Disabled	Alert mode:	◉ Enabled ○ Disabled
Units:	○ °C ○ °F ○ °R ○ K ○ mV ◉ Ω	Units:	◉ °C ○ °F ○ °R ○ K ○ mV ○ Ω
Alert setpoint:	_____	Alert setpoint:	_____
Deadband:	_____	Deadband:	_____

Example 1: Rising alert



Example 2: Falling alert



For more information: **Emerson.com**

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