Rosemount 848T Wireless Configuration Data Sheet

BOLD = Required Value
★ = Default

◯ Select only one of the items provided
☐ One or more of the listed items can be selected

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Customer Information

Customer: _____ Contact Name: _____

Phone No: _____ Fax No./Email: _____

P.O./Reference No.: _____ P.O. Line Item: _____

Quote No. _____ Model No.: _____

Customer Signoff: _____

Tagging

Hardware Tag: _____

Software Tag: _____

NOTE
The C1 option is required to factory configure each sensor differently. It is not needed to configure the self-organizing network parameters or to identically set all sensor inputs. The C1 option is also required for factory configuration of process alerts, update rate, and channel tag.

Self Organizing Network Parameters

Rosemount Smart Wireless Self Organizing devices employ configurable network parameters that allow users to manage network security. The best security practice is to order Smart 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.

◯ 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

Sensor Inputs (All Inputs Configured Identically)

Type

◯ Pt 50 GOST (α = 0.003910)
◯ Pt 100 GOST (α = 0.00391)
◯ Pt 100 IEC (α = 0.00385)
◯ Pt 100 JIS (α = 0.003916)
◯ Pt 200 JIS (α = 0.003916)
◯ Pt 200 IEC (α = 0.00385)
◯ Pt 500 IEC (α = 0.00385)
◯ Pt 1000 IEC (α = 0.00385)
◯ Ni 120 Edison Curve No. 15
◯ Cu 10 Edison Copper Winding No. 7
◯ Cu 50 (α = 426)
◯ Cu 50 (α = 428)
◯ Cu 100 (α = 426)
◯ Cu 100 (α = 428)
◯ NIST Type B T/C
◯ NIST Type E T/C
◯ NIST Type J★ T/C
◯ NIST Type K T/C
◯ NIST Type N T/C
◯ NIST Type R T/C
◯ NIST Type S T/C
◯ NIST Type T T/C
◯ GOST Type L
◯ DIN Type L T/C
◯ DIN Type U T/C
◯ Type ASTM W5Re/W26Re T/C
◯ 100 mV
◯ 1000 mV
◯ Ohms
◯ 4–20 mA (NAMUR)
◯ 4–20 mA (Rosemount)
◯ None

Number of Leads

◯ 2-wire★ ◯ 3-wire ◯ 4-wire

Calibration Range **(Default Range 0 - 100 °C)**(1)

Lower Limit _____ Upper Limit _____

Units

◯ mV ◯ K ◯ °C★ ◯ mA
◯ Ohms ◯ °R ◯ °F

(1) Required only for options Q4 and C4.

NOTE
Custom configuration information below this line requires C1 option code.

Transmitter Information
Descriptor (16 characters) _____
Message (32 characters) _____
Date (DD/MM/YY) _____

Update Rate	
Update Rate:_____	◯ Seconds ◯ Minutes
2.4 GHz DSSS *Wireless*HART Update Rate allows for 4 seconds, 8 seconds, 16 seconds, 32 seconds, or 1 to 60 minutes. (1 Minute★)	

Sensor 1 Configuration

Tag _____

Type

◯ Pt 50 GOST (α = 0.003910)	◯ Cu 50 (α = 426)	◯ NIST Type S T/C
◯ Pt 100 GOST (α = 0.00391)	◯ Cu 50 (α = 428)	◯ NIST Type T T/C
◯ Pt 100 IEC (α = 0.00385)	◯ Cu 100 (α = 426)	◯ GOST Type L
◯ Pt 100 JIS (α = 0.003916)	◯ Cu 100 (α = 428)	◯ DIN Type L T/C
◯ Pt 200 JIS (α = 0.003916)	◯ NIST Type B T/C	◯ DIN Type U T/C
◯ Pt 200 IEC (α = 0.00385)	◯ NIST Type E T/C	◯ Type ASTM W5Re/W26Re T/C
◯ Pt 500 IEC (α = 0.00385)	◯ NIST Type J★ T/C	◯ 100 mV
◯ Pt 1000 IEC (α = 0.00385)	◯ NIST Type K T/C	◯ 1000 mV
◯ Ni 120 Edison Curve No. 15	◯ NIST Type N T/C	◯ Ohms
◯ Cu 10 Edison Copper Winding No. 7	◯ NIST Type R T/C	◯ 4–20 mA (NAMUR)
		◯ 4–20 mA (Rosemount)
		◯ None

Number of Leads
◯ 2-wire★ ◯ 3-wire ◯ 4-wire

Calibration Range **(Default Range 0 - 100 °C)**(1)
Lower Limit _____ Upper Limit _____

Units
◯ mV ◯ K ◯ °C★ ◯ mA
◯ Ohms ◯ °R ◯ °F

(1) Required only for options Q4 and C4.

Sensor 1 Alerts

Low Alert		**High Alert**	
Mode:	◯ Enable ◯ Disable★	Mode:	◯ Enable ◯ Disable★
Trigger Point(1)	_____	Trigger Point(1)	_____
Dead Band(1)	_____	Dead Band(1)	_____

(1) Trigger point and dead band values use the same units of measurement as the sensor reading.

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Sensor 2 Configuration

Tag _____

Type

- ◯ Pt 50 GOST (α = 0.003910)
- ◯ Pt 100 GOST (α = 0.00391)
- ◯ Pt 100 IEC (α = 0.00385)
- ◯ Pt 100 JIS (α = 0.003916)
- ◯ Pt 200 JIS (α = 0.003916)
- ◯ Pt 200 IEC (α = 0.00385)
- ◯ Pt 500 IEC (α = 0.00385)
- ◯ Pt 1000 IEC (α = 0.00385)
- ◯ Ni 120 Edison Curve No. 15
- ◯ Cu 10 Edison Copper Winding No. 7
- ◯ Cu 50 (α = 426)
- ◯ Cu 50 (α = 428)
- ◯ Cu 100 (α = 426)
- ◯ Cu 100 (α = 428)
- ◯ NIST Type B T/C
- ◯ NIST Type E T/C
- ◯ NIST Type J★ T/C
- ◯ NIST Type K T/C
- ◯ NIST Type N T/C
- ◯ NIST Type R T/C
- ◯ NIST Type S T/C
- ◯ NIST Type T T/C
- ◯ GOST Type L
- ◯ DIN Type L T/C
- ◯ DIN Type U T/C
- ◯ Type ASTM W5Re/W26Re T/C
- ◯ 100 mV
- ◯ 1000 mV
- ◯ Ohms
- ◯ 4–20 mA (NAMUR)
- ◯ 4–20 mA (Rosemount)
- ◯ None

Number of Leads

◯ 2-wire★ ◯ 3-wire ◯ 4-wire

Calibration Range **(Default Range 0 - 100 °C)**

Lower Limit _____ Upper Limit _____

Units

◯ mV ◯ K ◯ °C★ ◯ mA
◯ Ohms ◯ °R ◯ °F

Sensor 2 Alerts

Low Alert		**High Alert**	
Mode:	◯ Enable ◯ Disable★	Mode:	◯ Enable ◯ Disable★
Trigger Point(1)	_____	Trigger Point(1)	_____
Dead Band(1)	_____	Dead Band(1)	_____

(1) Trigger point and dead band values use the same units of measurement as the sensor reading.

Sensor 3 Configuration

Tag _____

Type

- ◯ Pt 50 GOST (α = 0.003910)
- ◯ Pt 100 GOST (α = 0.00391)
- ◯ Pt 100 IEC (α = 0.00385)
- ◯ Pt 100 JIS (α = 0.003916)
- ◯ Pt 200 JIS (α = 0.003916)
- ◯ Pt 200 IEC (α = 0.00385)
- ◯ Pt 500 IEC (α = 0.00385)
- ◯ Pt 1000 IEC (α = 0.00385)
- ◯ Ni 120 Edison Curve No. 15
- ◯ Cu 10 Edison Copper Winding No. 7
- ◯ Cu 50 (α = 426)
- ◯ Cu 50 (α = 428)
- ◯ Cu 100 (α = 426)
- ◯ Cu 100 (α = 428)
- ◯ NIST Type B T/C
- ◯ NIST Type E T/C
- ◯ NIST Type J★ T/C
- ◯ NIST Type K T/C
- ◯ NIST Type N T/C
- ◯ NIST Type R T/C
- ◯ NIST Type S T/C
- ◯ NIST Type T T/C
- ◯ GOST Type L
- ◯ DIN Type L T/C
- ◯ DIN Type U T/C
- ◯ Type ASTM W5Re/W26Re T/C
- ◯ 100 mV
- ◯ 1000 mV
- ◯ Ohms
- ◯ 4–20 mA (NAMUR)
- ◯ 4–20 mA (Rosemount)
- ◯ None

Number of Leads

◯ 2-wire★ ◯ 3-wire ◯ 4-wire

Calibration Range **(Default Range 0 - 100 °C)**

Lower Limit _____ Upper Limit _____

Units

◯ mV ◯ K ◯ °C★ ◯ mA
◯ Ohms ◯ °R ◯ °F

Sensor 3 Alerts	
Low Alert	**High Alert**
Mode: ◯ Enable ◯ Disable★	Mode: ◯ Enable ◯ Disable★
Trigger Point(1) _____	Trigger Point(1) _____
Dead Band(1) _____	Dead Band(1) _____

(1) Trigger point and dead band values use the same units of measurement as the sensor reading.

Sensor 4 Configuration

Tag _____

Type

◯ Pt 50 GOST (α = 0.003910)	◯ Cu 50 (α = 426)	◯ NIST Type S T/C
◯ Pt 100 GOST (α = 0.00391)	◯ Cu 50 (α = 428)	◯ NIST Type T T/C
◯ Pt 100 IEC (α = 0.00385)	◯ Cu 100 (α = 426)	◯ GOST Type L
◯ Pt 100 JIS (α = 0.003916)	◯ Cu 100 (α = 428)	◯ DIN Type L T/C
◯ Pt 200 JIS (α = 0.003916)	◯ NIST Type B T/C	◯ DIN Type U T/C
◯ Pt 200 IEC (α = 0.00385)	◯ NIST Type E T/C	◯ Type ASTM W5Re/W26Re T/C
◯ Pt 500 IEC (α = 0.00385)	◯ NIST Type J★ T/C	◯ 100 mV
◯ Pt 1000 IEC (α = 0.00385)	◯ NIST Type K T/C	◯ 1000 mV
◯ Ni 120 Edison Curve No. 15	◯ NIST Type N T/C	◯ Ohms
◯ Cu 10 Edison Copper Winding No. 7	◯ NIST Type R T/C	◯ 4–20 mA (NAMUR)
		◯ 4–20 mA (Rosemount)
		◯ None

Number of Leads
◯ 2-wire★ ◯ 3-wire ◯ 4-wire

Calibration Range **(Default Range 0 - 100 °C)**
Lower Limit _____ Upper Limit _____

Units
◯ mV ◯ K ◯ °C★ ◯ mA
◯ Ohms ◯ °R ◯ °F

Sensor 4 Alerts	
Low Alert	**High Alert**
Mode: ◯ Enable ◯ Disable★	Mode: ◯ Enable ◯ Disable★
Trigger Point(1) _____	Trigger Point(1) _____
Dead Band(1) _____	Dead Band(1) _____

(1) Trigger point and dead band values use the same units of measurement as the sensor reading.

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