

Rosemount™ 644 HART® Head Mount Configuration Data Sheet

BOLD = Required Value

***** = Default

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: _____ (13 characters maximum)
Software tag: _____ (8 characters maximum - default is 8 characters of the hardware tag)
Long software tag ⁽¹⁾ : _____ (32 characters maximum)

1. Requires HR7 code. Default is Hardware tag, custom Long tag requires the C1 order option.

Sensor configuration (sensor 1)			
RTDs	Thermocouples	Other sensor types	Measurement range
<input type="radio"/> Pt 100* ($\alpha = 0.00385$) IEC	<input type="radio"/> Type B NIST	<input type="radio"/> mV	Upper Range Value (100%)
<input type="radio"/> Pt 200 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type E NIST	<input type="radio"/> Ohm	_____ (100 °C*)
<input type="radio"/> Pt 500 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type J NIST	Number of leads	Lower Range Value (0%)
<input type="radio"/> Pt 1000 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type K NIST	<input type="radio"/> 2-wire	_____ (0 °C*)
<input type="radio"/> Pt 100 ($\alpha = 0.003916$) JIS	<input type="radio"/> Type N NIST	<input type="radio"/> 3-wire	
<input type="radio"/> Pt 200 ($\alpha = 0.003916$) JIS	<input type="radio"/> Type R NIST	<input type="radio"/> 4-wire*	
<input type="radio"/> Ni 120 Edison Curve No. 7	<input type="radio"/> Type S NIST	Units	
<input type="radio"/> Cu 10 Edison Copper Winding No. 15	<input type="radio"/> Type T NIST	<input type="radio"/> mV	
<input type="radio"/> Pt 50 ($\alpha = 0.00391$) GOST 6651-94	<input type="radio"/> Type L DIN	<input type="radio"/> Ohms	
<input type="radio"/> Pt 100 ($\alpha = 0.00391$) GOST 6651-94	<input type="radio"/> Type U DIN	<input type="radio"/> K	
<input type="radio"/> Cu 50 ($\alpha = 0.00426$) GOST 6651-94	<input type="radio"/> Type W5Re/W26Re ASTM	<input type="radio"/> °R	
<input type="radio"/> Cu 50 ($\alpha = 0.00428$) GOST 6651-94	<input type="radio"/> Type L GOST	<input type="radio"/> °C*	
<input type="radio"/> Cu 100 ($\alpha = 0.00426$) GOST 6651-94		<input type="radio"/> °F	
<input type="radio"/> Cu 100 ($\alpha = 0.00428$) GOST 6651-94			

Sensor configuration (sensor 2) - requires dual sensor option code S		
RTDs	Thermocouples	Other sensor types
<input type="radio"/> Pt 100 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type B NIST	<input type="radio"/> mV
<input type="radio"/> Pt 200 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type E NIST	<input type="radio"/> Ohm
<input type="radio"/> Pt 500 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type J NIST	Number of leads
<input type="radio"/> Pt 1000 ($\alpha = 0.00385$) IEC	<input type="radio"/> Type K NIST	<input type="radio"/> 2-wire
<input type="radio"/> Pt 100 ($\alpha = 0.003916$) JIS	<input type="radio"/> Type N NIST	<input type="radio"/> 3-wire
<input type="radio"/> Pt 200 ($\alpha = 0.003916$) JIS	<input type="radio"/> Type R NIST	Units
<input type="radio"/> Ni 120 Edison Curve No. 7	<input type="radio"/> Type S NIST	<input type="radio"/> mV
<input type="radio"/> Cu 10 Edison Copper Winding No. 15	<input type="radio"/> Type T NIST	<input type="radio"/> Ohms
<input type="radio"/> Pt 50 ($\alpha = 0.00391$) GOST 6651-94	<input type="radio"/> Type L DIN	<input type="radio"/> K
<input type="radio"/> Pt 100 ($\alpha = 0.00391$) GOST 6651-94	<input type="radio"/> Type U DIN	<input type="radio"/> °R
<input type="radio"/> Cu 50 ($\alpha = 0.00426$) GOST 6651-94	<input type="radio"/> Type W5Re/W26Re ASTM	<input type="radio"/> °C
<input type="radio"/> Cu 50 ($\alpha = 0.00428$) GOST 6651-94	<input type="radio"/> Type L GOST	<input type="radio"/> °F
<input type="radio"/> Cu 100 ($\alpha = 0.00426$) GOST 6651-94		
<input type="radio"/> Cu 100 ($\alpha = 0.00428$) GOST 6651-94		

Options

Custom configuration information below this line requires C1 option code.

Transmitter information	
Descriptor: _____	(16 characters maximum)
Message: _____	(32 characters maximum)
Date: _____	(MM/DD/YYYY; default is date of final configuration)
Failure Mode Switch: <input type="radio"/> High*	<input type="radio"/> Low

Damping	
<input type="radio"/> 0 Seconds	<input type="radio"/> 5 Seconds* <input type="radio"/> Other _____ (0.5 to 32 in 0.1 sec. increments)

LCD display configuration (requires option code M4 or M5)		
Select the variables to be displayed on the transmitter LCD display (selections with multiple variables will be alternating).		
<input type="radio"/> Analog Output and Primary Variable*	<input type="radio"/> Average temperature	<input type="radio"/> Sensor 1, Sensor 2, and differential temperature
<input type="radio"/> Primary Variable	<input type="radio"/> Differential temperature	<input type="radio"/> Analog Output
<input type="radio"/> Sensor 1 temperature	<input type="radio"/> Percent of range	<input type="radio"/> Not used
<input type="radio"/> Sensor 2 temperature	<input type="radio"/> Sensor 1 and Sensor 2 temperature	

Diagnostic configuration (requires option code DC)

Hot Backup™ mode: Enabled* Disabled

Hot Backup Primary Variable: First Good* Average

Sensor drift alert mode (requires option code DC)

Enable - Warning* Enable - Alarm Disabled

Sensor drift alert limit: 3 °C* Other _____ (value must be greater than 1 °C, in 0.1 degree increments)

Sensor drift alert unit: °C* °F K

°R mV Ohm

Alarm and saturation values

Rosemount standard levels*

(High Alarm = 21.75 mA; Low Alarm = 3.75 mA; High Saturation = 20.5 mA; Low Saturation = 3.9 mA)

NAMUR - compliant (available with option codes A1 or CN)

Custom (option code C1)

High alarm level: _____ mA (must be between 21.5 and 23.0 mA)

Low alarm level: _____ mA (must be between 3.5 and 3.75 mA)

High saturation level: _____ mA (must be between 20.5 and the High Alarm Value minus 0.1 mA), 20.5 to 20.9 mA for safety certified)

Low saturation level: _____ mA (must be between the Low Alarm Value plus 0.1 mA, and 3.9 mA, minimum 3.7 mA for safety certified)

Security information

Software write protection: Enable Disabled*

HART lock⁽¹⁾: Enable Disabled*

Local operator interface password⁽²⁾: Enable Disabled*

Password (4 digits): _____ (if no number is entered, password will remain disabled)

1. Only available with HART Revision 7 Communication (option HR7).
2. Requires M4.

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