

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
☐ Pt 100* ($\alpha = 0.00385$) IEC	☐ Type B NIST	☐ mV	Upper range value (100%)
☐ Pt 200 ($\alpha = 0.00385$) IEC	☐ Type E NIST	☐ Ohm	_____ (100 °C*)
☐ Pt 500 ($\alpha = 0.00385$) IEC	☐ Type J NIST	Number of leads	Lower range value (0%)
☐ Pt 1000 ($\alpha = 0.00385$) IEC	☐ Type K NIST	☐ 2-wire	_____ (0 °C*)
☐ Pt 100 ($\alpha = 0.003916$) JIS	☐ Type N NIST	☐ 3-wire	
☐ Pt 200 ($\alpha = 0.003916$) JIS	☐ Type R NIST	☐ 4-wire*	
☐ Ni 120 Edison Curve No. 7	☐ Type S NIST	Units	
☐ Cu 10 Edison Copper Winding No. 15	☐ Type T NIST	☐ mV	
☐ Pt 50 ($\alpha = 0.00391$) GOST 6651-94	☐ Type L DIN	☐ Ohms	
☐ Pt 100 ($\alpha = 0.00391$) GOST 6651-94	☐ Type U DIN	☐ K	
☐ Cu 50 ($\alpha = 0.00426$) GOST 6651-94	☐ Type W5Re/W26Re ASTM	☐ °R	
☐ Cu 50 ($\alpha = 0.00428$) GOST 6651-94	☐ Type L GOST	☐ °C*	
☐ Cu 100 ($\alpha = 0.00426$) GOST 6651-94		☐ °F	
☐ Cu 100 ($\alpha = 0.00428$) GOST 6651-94			

Sensor configuration (sensor 2) - requires dual sensor option code S**RTDs**

- ☐ Pt 100 ($\alpha = 0.00385$) IEC
- ☐ Pt 200 ($\alpha = 0.00385$) IEC
- ☐ Pt 500 ($\alpha = 0.00385$) IEC
- ☐ Pt 1000 ($\alpha = 0.00385$) IEC
- ☐ Pt 100 ($\alpha = 0.003916$) JIS
- ☐ Pt 200 ($\alpha = 0.003916$) JIS
- ☐ Ni 120 Edison Curve No. 7
- ☐ Cu 10 Edison Copper Winding No. 15
- ☐ Pt 50 ($\alpha = 0.00391$) GOST 6651-94
- ☐ Pt 100 ($\alpha = 0.00391$) GOST 6651-94
- ☐ Cu 50 ($\alpha = 0.00426$) GOST 6651-94
- ☐ Cu 50 ($\alpha = 0.00428$) GOST 6651-94
- ☐ Cu 100 ($\alpha = 0.00426$) GOST 6651-94
- ☐ Cu 100 ($\alpha = 0.00428$) GOST 6651-94

Thermocouples

- ☐ 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

Other sensor types

- ☐ mV
- ☐ Ohm

Number of leads

- ☐ 2-wire
- ☐ 3-wire

Units

- ☐ mV
- ☐ Ohms
- ☐ K
- ☐ °R
- ☐ °C
- ☐ °F

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: ☐ High* ☐ Low

Damping

☐ 0 Seconds ☐ 5 Seconds* ☐ 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).

- | | | |
|---|---|--|
| ☐ Analog output and primary variable* | ☐ Average temperature | ☐ Sensor 1, sensor 2, and differential temperature |
| ☐ Primary variable | ☐ Differential temperature | ☐ Analog output |
| ☐ Sensor 1 temperature | ☐ Percent of range | ☐ Not used |
| ☐ Sensor 2 temperature | ☐ Sensor 1 and sensor 2 temperature | |

Diagnostic configuration (requires option code DC)

Hot Backup™ mode: ☐ Disabled★
☐ Enabled (select a Hot Backup primary variable)

Hot Backup Primary Variable: ☐ First good★ ☐ Average

Sensor drift alert mode (requires option code DC)

Sensor drift alert mode: ☐ Disabled★
☐ Enable - Warning (select sensor drift alert limit and unit)
☐ Enable - Alarm (select sensor drift alert limit and unit)

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⁽¹⁾: ☐ Enable ☐ Disabled★

Local operator interface password⁽²⁾: ☐ Enable ☐ Disabled★

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

1. If ordering with Custody Transfer option code D4, Software write protection will be enabled.

2. Requires M4.

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