

Configuration Data Sheet

HART TRANSMITTER

Customer Information

| | |
|-------------|-----------|
| Customer | Model No. |
| P.O. Number | Line Item |

Input-Output Information (software selectable)

| | | | |
|--|-----------------------------------|--|--|
| Sensor Type | No. of Leads | | |
| <input type="checkbox"/> Pt 100 $\alpha = 0.00385$ ★ | <input type="checkbox"/> 2-Wire | <input type="checkbox"/> NIST Type B T/C | <input type="checkbox"/> NIST Type T T/C |
| <input type="checkbox"/> Pt 100 $\alpha = 0.003916$ | <input type="checkbox"/> 3-Wire | <input type="checkbox"/> NIST Type E T/C | <input type="checkbox"/> DIN Type L T/C |
| <input type="checkbox"/> Pt 200 $\alpha = 0.00385$ | <input type="checkbox"/> 4-Wire ★ | <input type="checkbox"/> NIST Type J T/C | <input type="checkbox"/> DIN Type U T/C |
| <input type="checkbox"/> Pt 500 $\alpha = 0.00385$ | | <input type="checkbox"/> NIST Type K T/C | <input type="checkbox"/> mV |
| <input type="checkbox"/> Pt 1000 $\alpha = 0.00385$ | | <input type="checkbox"/> NIST Type N T/C | <input type="checkbox"/> Ohms |
| <input type="checkbox"/> Cu 10 | | <input type="checkbox"/> NIST Type R T/C | |
| <input type="checkbox"/> Ni 120 | | <input type="checkbox"/> Type W5Re/W26Re | |
| <input type="checkbox"/> Transmitter Sensor matching (C2 Option) | | <input type="checkbox"/> NIST Type S T/C | |

| | | | |
|----------------------------|-------------------------------------|-------------------------------------|---|
| 4-20 mA Points and Damping | 4 mA Value | 20 mA Value | Damping |
| | <input type="checkbox"/> 0 °C ★ | <input type="checkbox"/> 100 °C ★ | <input type="checkbox"/> 5 Seconds ★ |
| | <input type="checkbox"/> _____ °C | <input type="checkbox"/> _____ °C | <input type="checkbox"/> Other _____ (Value must be less than 32 seconds) |
| | <input type="checkbox"/> _____ °F | <input type="checkbox"/> _____ °F | |
| | <input type="checkbox"/> _____ °R | <input type="checkbox"/> _____ °R | |
| | <input type="checkbox"/> _____ K | <input type="checkbox"/> _____ K | |
| | <input type="checkbox"/> _____ mV | <input type="checkbox"/> _____ mV | |
| | <input type="checkbox"/> _____ Ohms | <input type="checkbox"/> _____ Ohms | |

Tagging

Hardware Tag _____ (13 characters maximum)
 Software Tag _____ (8 characters maximum - default is first 8 characters of the hardware tag)

Transmitter Information

Integral Meter With Meter (choose as many as desired)
 (644H Only-M5 option) Engineering Units ★ mA ★
 Percent Range

NOTE: If an integral meter is ordered with the transmitter, the default configuration alternates between "Engineering Units" and "mA."

Descriptor (C1 Option) _____ (16 characters maximum)
Message (C1 Option) _____
 _____ (2 Lines x 16 characters max)

Date (C1 Option) Day ____ (numeric) ____ Month (alphabetic) ____ Year (numeric)

Failure Mode and Software Security

Failure Mode High ★ Low
 Software Security Off ★ On

Signal Selection

4-20 mA with simultaneous digital signal based on HART protocol ★
 Burst mode of HART digital process variable
 Burst mode output options:
 Primary variable in engineering units Primary variable in percent of range Multidrop Communication

NOTE: This option fixes the transmitter's analog output at 4 mA. Choose a transmitter address for each transmitter (1 - 15) _____
 NOTE: Default transmitter address is "1" if multidrop communications is selected

Alarm and Saturation Values

Rosemount Standard ★
 NAMUR-compliant. Available with option code A1 or CN.
 Custom
 High Alarm Level: _____ mA (must be between 21.0 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 mA and the High Alarm Value minus 0.1 mA)
 Low Saturation Level: _____ mA (must be between the Low Alarm Value plus 0.1 mA and 3.9 mA)

★ = Standard Configuration

HART
4-20 mA

Configuration Data Sheet

FOUNDATION™ Fieldbus transmitter

★ = Default Configuration

Customer Information

| | |
|----------|-----------|
| Customer | Model No. |
| P.O. No. | Line Item |

Transmitter Tagging

Hardware Tag _____

 (2 lines x 28 character max.)

Physical Device Tag _____
 (32 character max.)

Integral Meter (Choose 4)

- Sensor 1 Engineering Units
- Sensor 2 Engineering Units
- Terminal Temperature
- Average Temperature
- Differential Temperature

Transmitter Information

Descriptor _____
 (C1 Option) (32 characters maximum)

Message _____
 (C1 Option) _____
 (48 characters maximum)

Date Day ____ Month ____ Year ____
 (C1 Option) Hour ____ Minute ____ Second ____

Security

Write Protect (software) Off ★ On

Damping

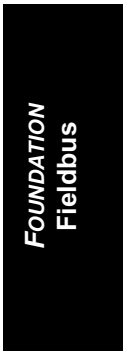
- 5 Seconds ★
- Other _____ (values must be less than 32 seconds)

LCD Display

- Sensor 1 ★
- Terminal Temperature

FOUNDATION
Fieldbus

| Sensor 1 | |
|---|--|
| Sensor Tag _____ (32 Characters Max) | |
| Type | |
| <input type="checkbox"/> Pt 100 $\alpha = 0.00385$ ★ | |
| <input type="checkbox"/> Pt 100 $\alpha = 0.003916$ | |
| <input type="checkbox"/> Pt 200 $\alpha = 0.00385$ | |
| <input type="checkbox"/> Pt 500 $\alpha = 0.00385$ | |
| <input type="checkbox"/> Pt 1000 $\alpha = 0.00385$ | |
| <input type="checkbox"/> Cu 10 | |
| <input type="checkbox"/> Ni 120 | |
| <input type="checkbox"/> Transmitter Sensor Matching (C2 Option) | |
| <input type="checkbox"/> Nonstandard (C7 Option), Attach Calibration Schedule | |
| <input type="checkbox"/> Ohms | |
| <input type="checkbox"/> NIST Type B T/C | |
| <input type="checkbox"/> NIST Type E T/C | |
| <input type="checkbox"/> NIST Type J T/C | |
| <input type="checkbox"/> NIST Type K T/C | |
| <input type="checkbox"/> NIST Type N T/C | |
| <input type="checkbox"/> NIST Type R T/C | |
| <input type="checkbox"/> NIST Type S T/C | |
| <input type="checkbox"/> NIST Type T T/C | |
| <input type="checkbox"/> mV | |
| <input type="checkbox"/> DIN Type L T/C | |
| <input type="checkbox"/> DIN Type U T/C | |
| <input type="checkbox"/> Type W5Re/W26Re T/C | |
| Number of Leads | |
| <input type="checkbox"/> 2-wire <input type="checkbox"/> 3-wire <input type="checkbox"/> 4-wire ★ | |
| Measurement Point | |
| LO _____ HI _____ | |
| Units | |
| <input type="checkbox"/> mV <input type="checkbox"/> °C ★ | |
| <input type="checkbox"/> Ohms <input type="checkbox"/> °F | |
| <input type="checkbox"/> K <input type="checkbox"/> °R | |
| Alarms ⁽¹⁾ Priority (0-15) | |
| HI HI Alarm _____ | |
| HI Alarm _____ | |
| LO Alarm _____ | |
| LO LO Alarm _____ | |



Product Data Sheet

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Rosemount 644

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