

# Configuration Data Sheet

## HART® / 4–20 mA / AND SAFETY CERTIFIED TRANSMITTER

★ = Default Configuration

### Customer Information

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

### Sensor

Sensor Type	Sensor 1	No. of Leads	Sensor 2 (dual-sensor option)	No. of Leads
	<input type="checkbox"/> Pt 100 $\alpha = 0.00385$ ★	<input type="checkbox"/> 2-Wire	<input type="checkbox"/> Pt 100 $\alpha = 0.00385$	<input type="checkbox"/> 2-Wire
	<input type="checkbox"/> Pt 100 $\alpha = 0.003916$	<input type="checkbox"/> 3-Wire	<input type="checkbox"/> Pt 100 $\alpha = 0.003916$	<input type="checkbox"/> 3-Wire
	<input type="checkbox"/> Pt 200 $\alpha = 0.00385$	<input type="checkbox"/> 4-Wire ★	<input type="checkbox"/> Pt 200 $\alpha = 0.00385$	
	<input type="checkbox"/> Pt 500 $\alpha = 0.00385$		<input type="checkbox"/> Pt 500 $\alpha = 0.00385$	
	<input type="checkbox"/> Pt 1000 $\alpha = 0.00385$		<input type="checkbox"/> Pt 1000 $\alpha = 0.00385$	
	<input type="checkbox"/> Cu 10		<input type="checkbox"/> Cu 10	
	<input type="checkbox"/> Ni 120		<input type="checkbox"/> Ni 120	
	<input type="checkbox"/> Transmitter Sensor Matching (C2 Option)		<input type="checkbox"/> Transmitter Sensor Matching (C2 Option)	
	<input type="checkbox"/> Nonstandard (C7 Option), Attach Calibration Schedule		<input type="checkbox"/> Nonstandard (C7 Option), Attach Calibration Schedule	
	<input type="checkbox"/> Ohms		<input type="checkbox"/> Ohms	
	<input type="checkbox"/> NIST Type B T/C	<input type="checkbox"/> NIST Type S T/C	<input type="checkbox"/> NIST Type B T/C	<input type="checkbox"/> NIST Type S T/C
	<input type="checkbox"/> NIST Type E T/C	<input type="checkbox"/> NIST Type T T/C	<input type="checkbox"/> NIST Type E T/C	<input type="checkbox"/> NIST Type T T/C
	<input type="checkbox"/> NIST Type J T/C	<input type="checkbox"/> mV	<input type="checkbox"/> NIST Type J T/C	<input type="checkbox"/> mV
	<input type="checkbox"/> NIST Type K T/C	<input type="checkbox"/> DIN Type L T/C	<input type="checkbox"/> NIST Type K T/C	<input type="checkbox"/> DIN Type L T/C
	<input type="checkbox"/> NIST Type N T/C	<input type="checkbox"/> DIN Type U T/C	<input type="checkbox"/> NIST Type N T/C	<input type="checkbox"/> DIN Type U T/C
	<input type="checkbox"/> NIST Type R T/C	<input type="checkbox"/> Type W5Re/W26Re T/C	<input type="checkbox"/> NIST Type R T/C	<input type="checkbox"/> Type W5Re/W26Re T/C

Note: A nonstandard sensor type can only be used for Sensor 1 or Sensor 2, not both.

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

### Tagging

Hardware Tag \_\_\_\_\_  
Software Tag \_\_\_\_\_ (8 characters maximum)

### Transmitter Information

Integral Meter (if ordered)	<input type="checkbox"/> <b>Alternating mA and Engineering Units</b> ★	<input type="checkbox"/> mA	<input type="checkbox"/> Alternating Sensor 1 and Sensor 2
	<input type="checkbox"/> Engineering Units	<input type="checkbox"/> Sensor 1 Engineering Units	<input type="checkbox"/> Differential Engineering Units
	<input type="checkbox"/> Percent	<input type="checkbox"/> Sensor 2 Engineering Units	<input type="checkbox"/> Average Engineering Units
	<input type="checkbox"/> Alternating Differential Temperature, Sensor 1, and Sensor 2		
Descriptor (C1 Option)	<input type="checkbox"/> _____ (16 characters maximum)		
Message (C1 Option)	<input type="checkbox"/> _____ (32 characters maximum)		
Date (C1 Option)	<input type="checkbox"/> Day ____ (numeric)	<input type="checkbox"/> Month ____ (alphabetic)	<input type="checkbox"/> Year ____ (numeric)

### Jumpers Selection

Failure Mode	<input type="checkbox"/> High ★	<input type="checkbox"/> Low
Software Security	<input type="checkbox"/> Off ★	<input type="checkbox"/> On

# Product Data Sheet

00813-0100-4021, Rev FA  
Catalog 2006 - 2007

# Rosemount 3144P

★ = Default Configuration

### 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 percentage of range

All dynamic variables in engineering units and the primary variable mA value

Multidrop communication (Not applicable for Safety Certified transmitter.)

Note: This option fixes the transmitter's analog output at 4 mA.

Choose transmitter address for each transmitter (1★-15) \_\_\_\_\_

Note: Default transmitter address is 1 if multidrop communication is selected.

### Alarm and Saturation Values

**Rosemount Standard ★**

NAMUR-compliant. Available with option code A1 or CN.

Custom (option code C1).

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, 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)

# 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 up to 4)

- Sensor 1                       Sensor 2                       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 (hardware and software)     Off ★                       On

### Damping

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

### Dual Sensor Configuration

Drift Limit  
 Default ★                       Other \_\_\_\_\_

Hot Backup  
 Enable                       Disable ★

**Note:** Configure Sensor Information on the next page to complete your FOUNDATION Fieldbus Configuration Data Sheet.

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 <sup>(1)</sup> Priority (0-15)	
HI HI Alarm _____	
HI Alarm _____	
LO Alarm _____	
LO LO Alarm _____	

Sensor 2	
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	
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 <sup>(1)</sup> Priority (0-15)	
HI HI Alarm _____	
HI Alarm _____	
LO Alarm _____	
LO LO Alarm _____	

Additional Input	
Sensor Tag _____ (32 Characters Max)	
<input type="checkbox"/> Differential Temperature or <input type="checkbox"/> Terminal Temperature	
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 <sup>(1)</sup> Priority (0-15)	
HI HI Alarm _____	
HI Alarm _____	
LO Alarm _____	
LO LO Alarm _____	