

Rosemount 2051 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 Signoff: _____	

Tagging
Hardware Tag: _____ (56 characters)
Software Tag: _____ (8 characters)
Long Software Tag: _____ (32 characters) ⁽¹⁾

(1) Only available with HART® Revision 7 Communication (option HR7).

Output information			
Pressure Units:	<input type="radio"/> inH ₂ O at 4 °C	<input type="radio"/> mmH ₂ O at 68 °F	<input type="radio"/> Psi
	<input type="radio"/> inH ₂ O at 60 °F	<input type="radio"/> inHg at 0 °C	<input type="radio"/> Atm
	<input type="radio"/> inH ₂ O at 68 °F	<input type="radio"/> mmHg at 0 °C	<input type="radio"/> Torr
	<input type="radio"/> ftH ₂ O at 68 °F	<input type="radio"/> Pa	<input type="radio"/> g/cm ²
	<input type="radio"/> mmH ₂ O at 4 °C	<input type="radio"/> kPa	<input type="radio"/> Bar
	<input type="radio"/> Mpa	<input type="radio"/> kg/cm ²	<input type="radio"/> mbar
Transfer Function:	<input type="radio"/> Linear*	<input type="radio"/> Square Root	
Range Points: 4mA = _____ (0*)		20mA = _____ (URL*) ⁽¹⁾	

(1) Default values may be different outside the U.S.A. Consult an Emerson Process Management Representative.

Note

Custom configuration information below this note requires C1 option code.

Output information	
Temperature units: <input type="radio"/> °C* <input type="radio"/> °F	Damping (0-60 sec): _____ (0.4 sec.*) ⁽¹⁾

(1) For 3051CD Range 0, default damping value is set to 3.2 seconds.

Transmitter information	
Descriptor: _____	(16 characters)
Message: _____	(32 characters)
Date: _____	(Date of Calibration [★])

Digital display information			
<input type="checkbox"/> Engineering Units [★]	<input type="checkbox"/> % of Range	<input type="checkbox"/> Scaled Variable	<input type="checkbox"/> Sensor Temperature
<input type="checkbox"/> Review parameters at startup			

Process variable output assignments			
Primary Variable:	<input type="radio"/> Measured Pressure [★]	<input type="radio"/> Scaled Variable	
Secondary Variable:	<input type="radio"/> Measured Pressure	<input type="radio"/> Scaled Variable [★]	<input type="radio"/> Sensor Temperature
Tertiary Variable:	<input type="radio"/> Measured Pressure	<input type="radio"/> Scaled Variable	<input type="radio"/> Sensor Temperature [★]

Scaled variable information	
Scaled Units = _____ (5 characters max - spaces consume 0-9, A-Z, /, %, -, and * character positions)	
Transfer Function:	
<input type="radio"/> Linear [★]	<input type="radio"/> Square Root
Linear Scaled Variable (with Linear option only)	Square Root Scaled Variable (with Square Root option only)
Low pressure value = _____ (Eng. Units)	Low pressure value = 0 (Eng. Units)
High pressure value = _____ (Eng. Units)	High pressure value = _____ (Eng. Units)
Low scaled value = _____ (Scaled Units)	Low scaled value = 0 (Scaled Units)
High scaled value = _____ (Scaled Units)	High scaled value = _____ (Scaled Units)
Linear Offset = _____ (Eng. Units)	Low Flow Cut <input type="radio"/> On [★] <input type="radio"/> Off _____ (Scaled Units)
Range Values - both categories must be completed. (used when scaled variable is set to primary variable)	
4mA = _____ (Scaled Unit) (seven digits max)	20 mA = _____ (Scaled Unit) (seven digits max)

Security information	
Security Switch: <input type="radio"/> Enable	<input type="radio"/> Disabled [★]
Local Operator Interface Password ⁽²⁾ : <input type="radio"/> Enable	<input type="radio"/> Disabled [★]
Configuration Buttons ⁽¹⁾ : <input type="radio"/> Enable [★]	<input type="radio"/> Disabled
Password (4 digits): _____	

(1) Requires D4, DZ or M4.
 (2) Requires M4.

Custom alarm and saturation signal levels		
Alarm: Values (mA) the transmitter outputs if it detects a gross malfunction condition.		
Saturation: Values (mA) the transmitter outputs if applied pressure goes outside the 4–20 mA range values. If option CR or CS is ordered, fill out the respective custom alarm and saturation values.		
Alarm and Saturation levels are defined by option codes:	Alarm Value:	Saturation Value:
No option = Standard, High	≥ 21.75 mA	= 20.80 mA
CT = Standard, Low	≤ 3.75 mA	= 3.90 mA
C4 = NAMUR, High	≥ 22.50 mA	= 20.50 mA
CN = NAMUR, Low	≤ 3.60 mA	= 3.80 mA
CR = Custom, High	Enter Value (20.20 to 23.00) _____(mA)	(20.10 to 21.50) _____(mA)
CS = Custom, Low	Enter Value (3.60 to 3.80) _____(mA) ⁽¹⁾	(3.70 to 3.90) _____(mA) ⁽¹⁾

(1) High alarm must be 0.1 mA greater than high saturation value.

*Standard Terms and Conditions of Sale can be found at www.rosemount.com/terms_of_sale
The Emerson logo is a trademark and service mark of Emerson Electric Co.
Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc.
All other marks are the property of their respective owners.*

**Emerson Process Management
Rosemount Measurement**
8200 Market Boulevard
Chanassen MN 55317 USA
Tel (USA) 1 800 999 9307
Tel (International) +1 952 906 8888
Fax +1 952 906 8889

Emerson Process Management
Blegistrasse 23
CH 6341 Baar
Switzerland
Tel +41 (0) 41 768 6111
Fax +41 (0) 41 768 6300

Emerson FZE
P.O. Box 17033
Jebel Ali Free Zone
Dubai UAE
Tel +971 4 811 8100
Fax +971 4 886 5465

**Emerson Process Management
Asia Pacific Pte Ltd**
1 Pandan Crescent
Singapore 128461
Tel +65 6777 8211
Fax +65 6777 0947/+65 6777 0743
Service Support Hotline: +65 6770 8711
Email: Enquiries@AP.EmersonProcess.com

**Emerson Process Management
Latin America**
1300 Concord Terrace, Suite 400
Sunrise Florida 33323 USA
Tel + 1 954 846 5030

00806-0100-4107, Rev EA, 06/14

ROSEMOUNT

www.rosemount.com


EMERSON
Process Management