Configuration Data Sheet

Complete this data sheet to define a custom configuration for the 3095FT. Unless Specified, Product will ship with the default values identified by the ★ symbol.

Customer Information

Customer_____

P.O. No _____

Model No.(1)_____

Line Item _____

SST Tag No._____

Software Tag |__|__|__|__|__|__|__|__| (8 characters)

Transmitter Information

Descriptor |__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__| (16 characters)

Message |__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__|__| (32 characters)

Differential pressure range ☐ 0-2.5 to 0-250 in H_20 (0-0.62 to 62.2 kPa)

Absolute pressure range ☐ 0-8 to 0-800 psia (0-55.16 to 0-5515.8 kPa)
☐ 0-36.26 to 0-3,626 psia (0-250 to 0-25000 kPa)

LCD Display ☐ None ☐ Installed

Flow Information

Low Flow Cut-off Point: |__|.|__|__| InH_2O — 0.25 InH_2O

Base Conditions

			Valid Range
Base Temperature Units=	☐ °F★ ☐ °C		
Base Temperature=	|__|__|.|__|__|	60 °F ★	32 to 77 °F (0 to 25 °C)
Base Pressure Units=	☐ psia ★ ☐ kPa		
Base Pressure=	|__|__|.|__|__|	13.0-16.0 psia (0.09-0.11 MPa)	

Deadbands

Minimum time to exit no-flow condition=	|__|__| seconds	10 seconds★
Minimum time to exit over-range condition=	|__|__| seconds	10 seconds★

Damping (in seconds): Select one damping value for each process variable.

Differential Pressure=	☐ 0.112	☐ 0.224	☐ 0.448	☐ 0.896
	☐ 1.792	☐ 3.584	☐ 7.168	☐
Absolute Pressure=	☐ 0.112	☐ 0.224	☐ 0.448	☐ 0.896
	☐ 1.792	☐ 3.584	☐ 7.168	
Temperature=	☐ 0.112	☐ 0.224	☐ 0.448	☐ 0.896
	☐ 1.792	☐ 3.584	☐ 7.169	

PV Defaults

					Valid Range
DP Default Value=	|__|__|__|.|__|__|__|	0 ★	☐ inH_2O ★	☐ kPa	LRL-URL
SP Default Value=	|__|__|__|__|__|.|__|__|__|	0 ★	☐ psia ★	☐ kPa	LRL-URL
PT Default Value=	|__|__|__|.|__|__|__|	60 ★	☐ °F ★	☐ °C	LRL-URL

Averaging and Compressibility Factor Information

☐ Averaging method: Flow dependent time-weighted Formulaic Averaging
Compressibility Factor: A.G.A. Report No. 8/API MPMS Chapter 14.2

Logging Information

Contract Hour |__|__|:|__|__|:|__|__| 07:00:00★

Logging Interval: ☐ Hourly ★ ☐ Set Interval |__|__| minutes (valid intervals: 1-99 minutes)

Logged Parameters (Select any number of variables. Selected parameters apply to both daily logs and variable logs.)

☐ Total Flow ★	☐ Minimum Differential Pressure	☐ Average Heating Value
☐ Total Flow Time ★	☐ Average Static Pressure ★	☐ Average Compressibility Factor
☐ Total Energy	☐ Maximum Static Pressure	☐ Average Integral Value
☐ Average Flow Rate ★	☐ Minimum Static Pressure	☐ Average CPrime
☐ Average Energy Rate	☐ Average Process Temperature ★	☐ Specific Gravity (Relative Density)
☐ Average Differential Pressure ★		☐ Maximum Process Temperature
☐ Maximum Differential Pressure		☐ Minimum Process Temperature

LCD Display Information (Only enter if LCD Display ordered.)

Display Parameters (Select any number of variables.)

☐ Flow Rate ★	☐ Totalized Energy Yesterday
☐ Differential Pressure ★	☐ Mole Percent CO_2
☐ Totalized Flow Today	☐ Mole Percent N_2
☐ Totalized Flow Yesterday	☐ Orifice Bore at 68 °F
☐ Static Pressure ★	☐ Date and Time
☐ Temperature ★	☐ Heating Value
☐ Energy Flow Rate	☐ Specific Gravity (Relative Density)
☐ Totalized Energy Today	

Units of Measure

Select of unit of measure for each category. Selected measuring units apply to LCD Displays and all Logs.

Flow Rate	☐ SCFH (Standard Cubic Feet per Hour) ★	☐ NCMH (Normal Cubic Meters per Hour)
	☐ SCFD (Standard Cubic Feet per Day)	☐ NCMD (Normal Cubic Meters per Day)
Differential Pressure	☐ IN_H_2O (Inches of Water @ 60 °F ★	☐ PA (pascals)
Static Pressure	☐ PSI (Pounds per square inch) ★	☐ PA (Pascals)
Temperature	☐ DEG_F (Degrees Fahrenheit) ★	☐ DEG_C (Degrees Celsius)
Energy	☐ BTU (BTUs) ★	☐ JOULES (Joules)

Static Pressure Information

The 3095FT can calculate and log static pressure as absolute or gage, based on upstream or downstream tap locations. However, flow is always calculated using the upstream absolute pressure measurement for greatest accuracy.

Static Pressure Tap Location

☐ Upstream ★ ☐ Downstream

Static Pressure Units

☐ Absolute ★ ☐ Gage (enter atmospheric pressure if gage selected: |__|__|.|__|__| 14.73 ★)

Meter Run Information

Meter Tube ID at 68 °F (inches): |__|__|.|__|__|__| 1.939 in.★

Meter Tube Material ☐ Carbon Steel ☐ SST 304 ☐ SST 316 ★ ☐ *Hastelloy C®* ☐ *Monel®*

Orifice Plate ID at 68 °F (inches): 0.1939 in. ★
|__|__|.|__|__|__|__|

Orifice Plate Material ☐ Carbon Steel ☐ SST 304 ☐ SST 316 ★ ☐ *Hastelloy C®* ☐ *Monel®*

Compressibility Factor Information

Choose desired characterization method, and only enter values for that method.

☐ Detail Characterization Method, (AGA8 1992)

			Valid Range	Default Values★
N2	Nitrogen mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	0
CO2	Carbon Dioxide mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	0
H2S	Hydrogen Sulfide mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	0
H2O	Water mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
He	Helium mole percent	|__|__|.|__|__|__|__|%	0-3.0 percent	0
C1	Methane mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	100
C2	Ethane mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	0
C3	Propane mole percent	|__|__|.|__|__|__|__|%	0-12 percent	0
iC4	i-Butane mole percent	|__|__|.|__|__|__|__|%	0-6 percent(1)	0
nC4	n-Butane mole percent	|__|__|.|__|__|__|__|%	0-6 percent(1)	0
iC5	i-Pentane mole percent	|__|__|.|__|__|__|__|%	0-4 percent(2)	0
nC5	n-Pentane mole percent	|__|__|.|__|__|__|__|%	0-4 percent(2)	0
C6	Hexane mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
C7	Heptane mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
C8	Octane mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
C9	Nonane mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
C10	Decane mole percent	|__|__|.|__|__|__|__|%	0-Dew Point	0
O2	Oxygen mole percent	|__|__|.|__|__|__|__|%	0-21 percent	0
CO	Carbon Monoxide mole percent	|__|__|.|__|__|__|__|%	0-3.0 percent	0
H2	Hydrogen mole percent	|__|__|__|.|__|__|__|__|%	0-100 percent	0
Argon	Argon mole percent	|__|.|__|__|__|__|%	0-1.0 percent	0

(1) The summation of i-Butane and n-Butane cannot exceed 6 percent
(2) The summation of i-Pentane and n-Pentante cannot exceed 4 percent.

☐ Gross Characterization Method, Option 1 (AGA8 Gr-Hv-CO2) ★

		Valid Range	Default Values ★
Volumetric Gross Heating Value at Base Conditions	|__|__|__|__|__.|__|__|BTU/SCF	477-1200 BTU/SCF	1014.29
Specific gravity at 14.73 psia and 60 °F	.|__|__|__|__|__|__|	0.554000-0.900000	0.554787
Specific gravity at Base Conditions	.|__|__|__|__|__|__|	0.554000-0.900000	0.554787
Carbon dioxide mole percent	|__|__|.|__|__|__|__|%	0-30 percent	0
Hydrogen mole percent	|__|__|.|__|__|__|__|%	0-10 percent	0
Carbon monoxide mole percent	|__|.|__|__|__|__|	0-3 percent	0

☐ Gross Characterization Method, Option 2 (AGA8 Gr-CO2-N2)

		Valid Range	Default Values ★
Specific Gravity at 14.73 psia and 60 °F	.|__|__|__|__|__|__|	0.554000-0.900000	0.554787
Specific Gravity at Base Conditions	.|__|__|__|__|__|__|	0.554000-0.900000	0.554787
Nitrogen mole percent	|__|__|.|__|__|__|__|%	0-50 percent	0
Carbon dioxide mole percent	|__|__|.|__|__|__|__|%	0-30 percent	0
Hydrogen mole percent	|__|__|.|__|__|__|__|%	0-10 percent	0
Carbon monoxide mole percent	|__|.|__|__|__|__|%	0-3 percent	0
Volumetric Gross Heating Value at Base Conditions	|__|__|__|__|.|__|__|BTU/SCF	477-1200 BUT/SCF	1014.29

NOTE: Default characterization values assume 100% gas.

Real-Time Clock

Select one time zone

☐ Alaska ☐ Pacific ☐ Mountain ☐ Central ★
☐ Eastern ☐ Atlantic

Write Protect Switch

When ON, the write protect switch prevents any software changes to the transmitter.

☐ On ☐ Off ★

Signal Selection

Select one output format

☐ Digital HART® ★

☐ Burst mode of HART digital process variable

Select desired burst mode output option:

☐ All dynamic variables in engineering units (DP, AP, Temperature, Flow Rate) ★

☐ Differential pressure in engineering units

☐ Differential pressure in percent of range

Select one communication method

☐ Standard ★

☐ Multidrop Communications

Choose transmitter multidrop short address (1-15): |__|__| 1★

Passwords (Optional)

Level 1 password allows retrieving and viewing logged data. Level 2 adds access to transmitter maintenance and configuration. Level 3 provides full access for the system administrator.
(Enter up to six passwords for level 1, and up to three passwords for level 2. Enter one password for Level 3.)

Level 1 |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__|
|__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__|

Level 2 |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__| |__|__|__|__|__|__|__|__|

Level 3 |__|__|__|__|__|__|__|__|

Special Calibration (Optional)

Default values indicate standard calibration. Enter lower trim and upper trim values if special calibration is desired:

	Lower Trim Value	Upper Trim Value	Default Values ★
Differential Pressure	_____	_____	0, URL
Absolute Pressure	_____	_____	0, URL
Temperature	_____	_____	-40, 185 °F

(1) A complete model number is required before Rosemount can implement this custom configuration.

3095FT Flow Transmitter Range Units

	Differential Pressure Range 2 Span			Absolute Pressure Range 3 Span		Absolute Pressure Range 4 Span	
Units	**min**	**max**	**Units**	**min**	**max**	**min**	**max**
in H_2O	2.5	250	psia	150	800	40	4000
kPa	0.62161	62.1606	MPa	0.05516	5.51581	0.275791	27.5790

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