

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.)

<input type="checkbox"/> Total Flow ★	<input type="checkbox"/> Minimum Differential Pressure	<input type="checkbox"/> Average Heating Value
<input type="checkbox"/> Total Flow Time ★	<input type="checkbox"/> Average Static Pressure ★	<input type="checkbox"/> Average Compressibility Factor
<input type="checkbox"/> Total Energy	<input type="checkbox"/> Maximum Static Pressure	<input type="checkbox"/> Average Integral Value
<input type="checkbox"/> Average Flow Rate ★	<input type="checkbox"/> Minimum Static Pressure	<input type="checkbox"/> Average CPrime
<input type="checkbox"/> Average Energy Rate	<input type="checkbox"/> Average Process Temperature ★	<input type="checkbox"/> Specific Gravity (Relative Density)
<input type="checkbox"/> Average Differential Pressure ★		<input type="checkbox"/> Maximum Process Temperature
<input type="checkbox"/> Maximum Differential Pressure		<input type="checkbox"/> Minimum Process Temperature

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

Display Parameters (Select any number of variables.)

<input type="checkbox"/> Flow Rate ★	<input type="checkbox"/> Totalized Energy Yesterday
<input type="checkbox"/> Differential Pressure ★	<input type="checkbox"/> Mole Percent CO ₂
<input type="checkbox"/> Totalized Flow Today	<input type="checkbox"/> Mole Percent N ₂
<input type="checkbox"/> Totalized Flow Yesterday	<input type="checkbox"/> Orifice Bore at 68 °F
<input type="checkbox"/> Static Pressure ★	<input type="checkbox"/> Date and Time
<input type="checkbox"/> Temperature ★	<input type="checkbox"/> Heating Value
<input type="checkbox"/> Energy Flow Rate	<input type="checkbox"/> Specific Gravity (Relative Density)
<input type="checkbox"/> 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_H₂O (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.

<input type="checkbox"/> 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-Pentane cannot exceed 4 percent.

<input type="checkbox"/> 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

<input type="checkbox"/> 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 ★

*Annubar, ProPlate, Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc.
Coplanar and Multivariable are trademarks of Rosemount Inc.
HART is a registered trademark of the HART Communications Foundation.
Modbus is a trademark of Modicon, Inc.
Hastelloy C and Hastelloy C-276 are registered trademarks of Cabot Corp.
Microsoft and Windows are registered trademarks of Microsoft Corp.
PlantWeb is a mark of one of the Emerson Process Management companies.
All other marks are the property of their respective owners.*

Emerson Process Management

Rosemount Inc.

8200 Market Boulevard
Chanhassen, MN 55317 USA
T (U.S.) 1 800 999 9307
T (International) (952) 906 8888
F (952) 949 7001

www.rosemount.com

Emerson Process Management Emerson Process Management Asia

Heath Place
Bognor Regis
West Sussex PO22 9SH
England
T 44 (0) 1243 863121
F 44 (0) 1243 867554

Pacific Private Limited

1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947
Enquiries@AP.EmersonProcess.com

