

# SFC 332G



## Introduction

The SFC332G is a 32-bit, **bi-directional, dual meter run**, custody flow computer used for measuring a large selection of natural and industrial gases.

**Dual streams** with independent products can be measured, as well as a single stream with up to two (2) meter runs. A **forward and reverse** totalizer is established for the meter run using the DP signal or a digital input for direction indication.

**Stack DP's** may be used to increase the differential pressure rangeability and performance. Additionally, a frequency or analog signal can be accepted from a **Densitometer**.

An optional **Multivariable Module 205 Sensor** may be integrally mounted to the SFC 332G to allow accurate determination of **differential pressure, static pressure, and temperature**.



## SFC 332G Details

### Specification

32 Bit Processor  
12-30 VDC @ 4 WATT  
NEMA 7, 4X Class 1 Div. 1  
Group B, C and D Housing

### Display

2 Lines, 16 Characters  
Min Max Charting  
Minutes, Hours or Days

### Standard Interfacing

Serial Modbus  
(3) Frequency Channels  
(4) Analog Inputs  
(2) Single-ended Analog Outputs  
(2) RTD Inputs  
\*\*(4) Digital Inputs  
\*\*(5) Digital Outputs  
(1) RS232 Port  
(1) RS485 Port  
(1) Printer Output  
Rosemount Multivariable-  
DP, Press., & Temp.  
0.075 % Accuracy of  
Calibrated Range

\*\*I/O Expansion Terminal strip is  
required

### Interrogation Upgrade Options

TCP/IP Encapsulated Modbus  
GSM/ Radio  
Satellite

### Applications

Well Head Measurement  
Custody Measurement  
Allocation Measurement  
Gas Process Plants  
Plunger Control  
Liquid Totalizing  
PID Control  
Smart Field I/O

### Standardization

API, ISO, AGA

### Units of Measurement

US Customary

### Metered Products

Natural Gases (AGA8)  
Process Gases (AGA8)  
Industrial Gases (NX19, Oxygen/  
Nitrogen/ Argon/ Para Hydrogen  
NBS1048)  
Ethylene (NBS 1045)  
Superheated Steam (NIST10, Steam  
NBS)  
Saturated Steam  
Liquid Products w/ no Compensation

### Instrumentation

Orifice Meter (API 14.3/AGA3)  
Turbine/ Freq. Meter (AGA7)  
SmartCone® (Dynamic)  
Other Cone Meters  
Wedge  
Venturi  
Nozzle  
Annubar™  
Preso Flow (Ellipse® Pitot )  
4-20 mA Flow Input

11104 West Airport Blvd, Suite 108  
Stafford, Texas 77477 USA  
T: 281.565.1118  
F: 281.565.1119  
sales@dynamicflowcomputers.com

<b>Technical Data- SFC 332G</b>	
<b>POWER</b>	
VOLTAGE RANGE	12-30 VDC
POWER CONSUMPTION	4 WATT
<b>OPERATING CONDITIONS</b>	
UNITS	US
TEMPERATURE	- 40 TO 185 °F
HUMIDITY	100%
HOUSING	NEMA 4X CLASS 1 DIV. 1
<b>FEATURES</b>	
DISPLAY	PLASMA 2 LINES 16 CHARACTERS
PROCESSOR	32-BIT MOTOROLA 168332 @ 16.7 MHz
FLASH ROM	4 MB @ 70 NANO SECONDS
RAM	2 MB @ 70 NANO SECONDS
FREQUENCY INPUT	THREE (3) CHANNELS 0-5000 Hz >70 Mv FOR SIN WAVE >6 VOLTS FOR SQUARE WAVE
ANALOG INPUT	FOUR (4) 24-BIT CHANNEL EXPANDABLE TO SIX (6) ANALOG INPUTS
RTD INPUTS	TWO (2) CHANNELS, FOUR (4) WIRES
ANALOG OUTPUT	TWO (2) CHANNELS, 12-BIT SINGLE ENDED
DIGITAL OUTPUT	OUTPUTS (1) AND (2)- PULSE/SWITCH- 0.5 AMPS RATING OUTPUTS (3) TO (5)- SWITCH OUTPUTS- 0.25 AMPS RATING
STATUS INPUTS	FOUR (4) ON/OFF TYPE SIGNAL
ALL INPUTS AND OUTPUTS ARE OPTICALLY ISOLATED	
SERIAL COMMUNICATION	ONE (1) RS-485 @ 38400 BAUDS VARIABLE ONE (1) RS-232 @ 19200 BAUDS VARIABLE
COMMUNICATION PROTOCOL	MODBUS