SFC 332L

Dynamic FLOW COMPUTERS
Made to Measure.

Introduction

The SFC332L is a 32-bit, **bi-directional, dual meter run,** custody flow computer used for measuring a large selection of liquids. Standard features include **on-demand batching, daily batching** and **product scheduling.**

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 range-ability 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 332L to allow accurate determination of **differential pressure, static pressure, and temperature.**

SFC 332L 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
Turbine Diagnostic
Batching
Product Scheduling
Well Head Measurement
Custody Measurement
Allocation Measurement
Gas Process Plants
PID Control
Smart Field I/O

Standardization
API, ISO, AGA

Units of Measurement
US Customary

Metered Products
Crude Oil (5A/6A, 6A, 23A/24A, 24A)
Refined Products (5B/6B, 6B, 23A/24A, 24A, 23B/24B, 24B)
Specialized Products (6C, 24C)
LPG (New 23/24, Old 23/24, Old 24)
Propylene (API2565)
Ethylene (API2565/ NBS1045)
Butadiene (ASTM 1550A/B, 1550B)
Liquid CO_2 (NIST 14)
Water

Instrumentation
Orifice Meter (API 14.3/AGA3)
Turbine/ Freq. Meter
Wedge
Venturi

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Technical Data- SFC 332L	
POWER	
VOLTAGE RANGE	12-30 VDC
POWER CONSUMPTION	4 WATT
OPERATING CONDITIONS	
UNITS	US
TEMPERATURE	- 40 TO 185 °F
HUMIDITY	100%
HOUSING	NEMA 4X CLASS 1 DIV. 1
FEATURES	
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
	WITH TURBINE DIAGNOSTIC FUNCTION
	>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