

SFC 332P

Introduction

The SFC 332P is a **stationary or mobile proving**, custody flow computer with a 32-bit microprocessor. It can be programmed with up to 60 meters with all their relevant data to be selected on the fly.

Full Automatic Proving can be achieved with the use of unidirectional, bi-directional, pipe or piston-type provers with pulse interpolation. A separate proving report may be stored for each meter using the previous three (3) meter factors, gravity and flow rate to evaluate the meter factor shift.

A frequency or analog signal can be accepted from a **Densitometer**.

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



SFC 332P 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

Proving
Well Head Measurement
Custody Measurement
Allocation Measurement
Gas Process Plants
PID Control
Smart Field I/O

Standardization

API, ISO, AGA

Units of Measurement

Metric & US Customary

Products

Crude Oil (6A, 23A/24A, 24A)
Refined Products (5B/6B, 6B,
23B/24B)
Specialized Products (6C, 24C)
LPG (New 23/24, New 24)
Butadiene (ASTM 1550)

Instrumentation

Turbine/ Freq. Meter

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Technical Data- SFC 332P	
POWER	
VOLTAGE RANGE	12-30 VDC
POWER CONSUMPTION	4 WATT
OPERATING CONDITIONS	
UNITS	US or METRIC
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 >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