The next generation flow computer, only from Dynamic Flow Computers. The SFC500 DIN is designed to cover today's measurement and control requirements no matter what they may be.

Multi bi-directional run, DIN Rail mounted flow computer. It can be used for all liquid and gas applications, including custody or non-custody measurement. Unique data sharing for up to 4 flow computers on one loop in Master/Slave configuration.

PID, Math Functions, Boolean Statements and special archive features are standard. Minimum of 35 days of daily and hourly archives and 1 year of monthly archives.

Here are just a few of the ways we've got you covered:

- Modbus protocol
- High speed processor
- Turbine diagnostics
- Gases and liquids
- PID control ready
- Boolean statements
- Math functions
- Bi-directional features
- Ultra low power (under 0.3 watts)
- High accuracy A/D converters
- Gas chromatography interface
- Industry standard equations (ISO, API, AGA etc)
- Master/Slave architecture
- Built in data battery back-up
- Radio and modem ready
- Custody transfer accuracy

The input/output assignment, flow equations, historical data storage, and other functions are carried out using Dynamic Flow Computers' DYNACOM® software. This software is Windows based, free of charge, and available for download/update at any time on our website.

DYNACOM® Software Capabilities:

- Flow computer diagnostics
- Configure inputs and outputs
- Configure PID control
- Personalize report time and content
- Configure and select the local LCD screen displayed parameters
- Reassign and customize MODBUS® registers and values
- Create and implement custom math and formulas
- Input and output calibration
- Automatic and periodic downloading of flow computer reports
- Obtain historic data for display, saving, exportation, or printing

Historic data is available in the memory of the flow computer for download or display.

Maximum Report Storage:

- Hourly reports: 35 *
- Daily reports: 35 *
- Monthly reports: 12 *

*The number of reports stored can vary according to application.

SPECIFICATIONS

Processor	Motorola 68332 @ 3 volts Built in math coprocessor emulation compiler
Memory	8 MBit of RAM for operation historical archive & configuration & calibration 16 MBit of flash EPROMs for program
Inputs/Outputs	Four (4) digital outputs with thermal re-settable 1/4 amp fuse Four (4) digital inputs up to 30 VDC One (1) analog out (16 bit) optically isolated and loop powered Five (5) analog In (24 bit) or 3 analog In & one 4-wire RTD Four (4) frequency inputs (square wave up to 10k HTZ)
Expansion Modules	Analog output expansion: three (3) additional analog outputs Analog input expansion: five (5) additional inputs Prover expansion: ball and small volume prover controller Ethernet expansion: one (1) 100Mbs Ethernet port All the modules can be installed simultaneously
Communications	3 - Modbus ports (1 - RS232 / 2 - RS485) Protocols: Modbus, Enron Modbus and Pemex Modbus (Valvulas & Medicion) 1 - Printer port Chromatograph Interface Micro Motion Interface
Input Voltage	6 - 30 VDC (0.3 watts)
Network Architecture	Master/Slave up to 4 Micro MV's to share data @ 9600 BPS - All information from the 4 flow computers can be retrieved from the master flow computer in the network
Historical Data	Minimum of 35 days of daily and hourly. 1 year of monthly archives.
Reporting	Square root averaging with daily, hourly, monthly and instantaneous user configurable reporting
Environmental	Reinforced polycarbonate fiber housing for DIN Rail mounting Operating temperature (-40 to +185 °F) (-40 to 85 °C)
Algorithm	User selectable API, AGA, ISO, NIST & NBS standards for liquid and gas. Orifice, Turbine, Micro Motion, Venturi, Annubar, Wedge, Vcone, Ultrasonic, P.D. etc. Calculated Up to 4 times per second
Display	Optional external 4 line 20 character display with keyboard module
Software	Free Dynacom software for configuration from any Laptop, PC or Modbus Driver. Includes user friendly one touch help screens for all entries. On line PID and current data for real time display
PID	Flow and back pressure control with automatic or manual mode

Expansion Modules

All expansion modules can be used simultaneously allowing for maximum flexibility and expandability.

Analog Input Module	- Five (5) Additional Inputs - Accurate 24-Bit Analog Input - Selectable from 4-20mA and 0-5Vdc
Analog Output Module	- Three (3) Additional Outputs - Accurate 16-Bit Analog Outputs - Loop Powered - Optically Isolated
Prover Module	- Dual or Single Detector Switches - Supports Ball or Small Volume Provers - Signal Polarity is Configurable - Double Chronometry Support