



SFC PC PROCESS CONTROLLER

WALLACE & TIERNAN® ANALYZERS/CONTROLLERS

The Wallace & Tiernan® SFC PC process control unit is specifically designed for automatic control of disinfection, de-chlorination and chemical feed in water conditioning or industrial process applications. Typically used as a setpoint controller, the SFC PC system provides accurate control of gas feed equipment, as well as chemical metering pumps. Easy operation, setup and calibration using intuitive menu navigation makes sophisticated control functions simple.

TYPICAL APPLICATIONS

- Potable water treatment
- Waste water treatment
- Cooling water circuits
- Industrial and process water treatment
- Swimming pools

FEATURES

The SFC PC unit is available either as a stand alone, wall-mounted unit, equipment-mounted, or panel-mountable unit for installation in a control enclosure. The SFC PC process controller features a choice of four control modes:

- Compound loop - the use of “fuzzy-logic” auto-tuning control technology adapts the controller action to provide a quick response with minimal deviation from the setpoint
- Single feedback or direct residual - ideal for use in closed loop systems
- Feed forward
- Flow proportional

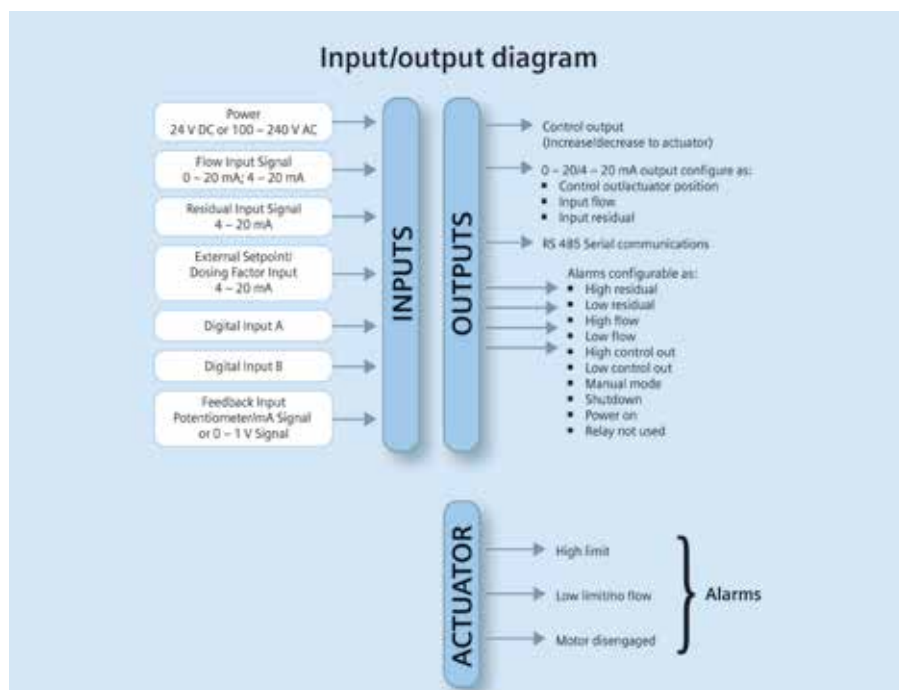
Benefits:

- Choice of four field-selectable control modes, including process optimized, adaptive control
- Can be combined with appropriate measurement flow cell as a single analyzer/controller package
- Graphical display of all parameters and process variables
- Intuitive menu navigation for easy operation
- User configurable alarm relays for any of 16 different conditions
- Galvanically isolated inputs and outputs

SFC ELECTRONIC MODULE

Display	Back-lit LCD display, 128 x 64 pixels resolution inputs for measured concentration input, flow input and external setpoint
Measurement input	3 x 0/4 – 20 mA or 0 – 1 V or 1 k Ω
Operating ranges	Ranged to match the residual analyzer as follows: 0 to 0.1 up to 50.0 mg/l or center zero operation with the Deox/2000 [®] analyzer, 0.5 mg/l SO ₂ to 0.5 mg/l Cl ₂ up to 10.0 mg/l SO ₂ to 10 mg/l Cl ₂
Digital inputs	2
Switching outputs (relays)	4 alarm/control relays
Analog output	0/4 – 20 mA, load protected \leq 500 Ω Accuracy < 0.5 % FS; Galv. isolated up to 50 V relative to earth
Interfaces	RS 485 port for connection to a Process Monitoring System, OPC-Server, CAN sensor/ actuator bus interface, RS 232 for firmware updates and slot for field bus modules

Power supply	24 V DC or 100 – 240 V AC, 50/60 Hz
Operating temperature	0 – 50 °C (32 – 122 °F)
Enclosure	IP 66
Installation options	Wall mounted, equipment or panel mounted
Trend graph	7-day trend graph for historical reference and analysis; 30-day available with SD card
Weight (incl. packaging)	approx. 2.5 kg (5.5 lbs)
Dimensions (W x H x D)	185 x 265 x 145 mm (7.3 x 10.4 x 5.7 ")
Testing and marking	Inspected for EMC in accordance with EN 61326; tested for electrical safety in accordance with EN 61010 CE marking; UL listed; CSA certified
Extras	Real-time clock, battery operated Flash-Memory (max. 512 kB, 20 kB RAM)
SD card	30 days trend for two measurands
Proportional gain	Keypad adjustable from 1 – 1000 %
Integral gain	Keypad adjustable from 1 – 100 minutes
Lag time	Keypad adjustable from 1 – 60 seconds
Security access	3-digit lock code for changing operating parameters



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