SFC SC FLOW PROPORTIONAL CONTROL

WALLACE & TIERNAN® ANALYZERS/CONTROLLERS

The Wallace & Tiernan® SFC SC system is used for flow proportional controlled dosing of chemicals used in water treatment and for similar industrial process applications. It can control automatic V-notch positioners in gas feed systems, such as the V10k™ and V2000™ systems, or automatic stroke length positioners and variable speed drives in dosing pump systems.

The SFC SC system is available either as stand alone wall-mounted unit, equipment-mounted, or as a panel-mountable unit for installation in a control enclosure.

The SFC SC flow proportional control compliments the SFC series of products which measure and control various parameters, including free and total chlorine, chlorine dioxide, ozone, fluoride, ORP (redox) and pH value.

TYPICAL APPLICATIONS

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

FEATURES

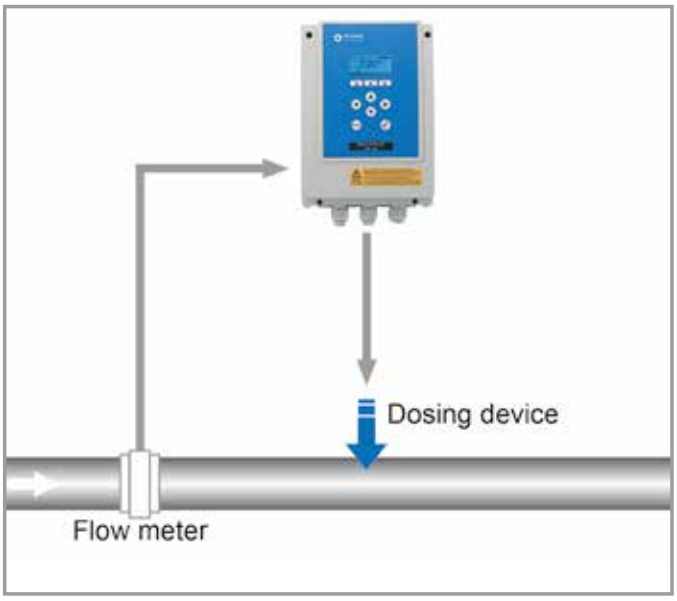
- Determines the control signal for the positioner/dosing pump from the control variable and the dosing factor
- Sets the position of the positioner accurately using a feedback signal
- Automatic correction in the event of nonlinearity of the gas feeder
- Wide dosage range: 10 – 400 %
- Electronic override
- mA or relay output control signals
- Security access

Key Benefits

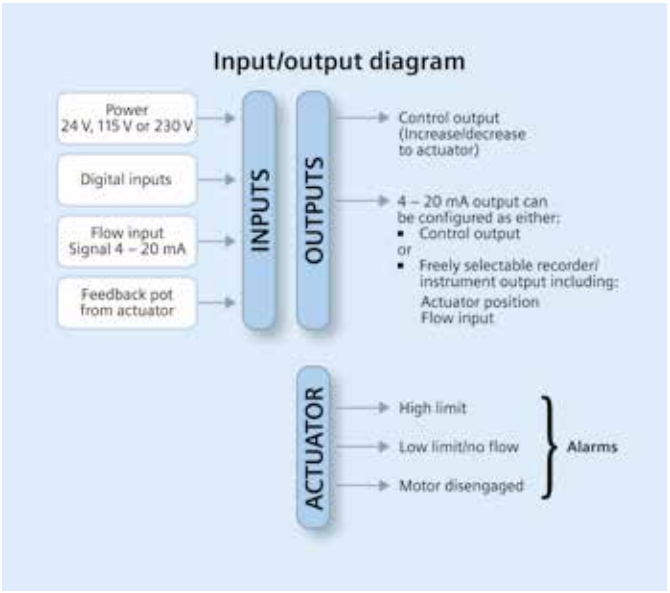
- Easy to operate thanks to intuitive menu navigation, diagnostics menu to simplify maintenance and installation, automatic display of any faults
- Multiple correction values can be used for linearization of the dosing feedback
- Graphical display of all parameters and process variables
- User-selectable units for flow and dosing
- Galvanically isolated inputs and outputs

SFC ELECTRONIC MODULE

Display	Back-lit LCD display, resolution 128 x 64 pixels
Measurement input	0/4 – 20 mA, 47 Ω impedance, isolated
Feedback input	0/4 – 20 mA or 0 – 1 V or 1 kΩ, 5 kΩ potentiometer linearization over maximum 11 correction values
Digital inputs	2 x inputs for voltage-free contact (< 100 Ω) power supply via SFC SC (12 V)
Switching relay outputs - Switching values - L/CSA-ratin	2 x controller outputs 5 A, 250 V AC, 1250 VA max 5 A, 220 V DC, 150 W max 5 A, 1/6 HP 125, 250 V AC 5 A, 30 V DC, 30 W max 1 A, 30 V DC – 0.24 A, 125 V DC
Analog output	0/4 – 20 mA; load protected ≤ 500 Ω; Accuracy < 0.5 % FS; Galv. isolated up to 50 V relative to earth
Interface	RS 232 for firmware updates
Characteristics	Dosage factor adjustable from 10 – 400 %; Flow scaling factor free selectable
Power supply	24 V DC or 100 – 240 V AC, 50/60 Hz
Ambient temperature	0 – 50 °C (32 – 122 °F)
Enclosure	IP 66, designed to meet NEMA 4X
Installation options	Wall-mounted, equipment-mounted (e.g. V10k, V2000), or panel-mounted in a control enclosure
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	CE, EMC-EN 61326 IEC EN 61010 UL listed/CSA certified



Dosing is directly proportional to the measured flow rate.



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