

DATA SHEET - SURESENSE FOAM AND LIQUID CONTROLLER

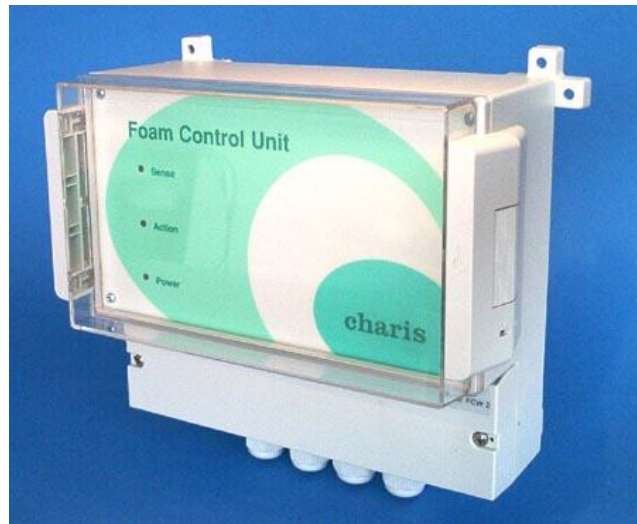


DESCRIPTION

A Controller designed specifically for liquid and foam control, to be used with Hycontrol Foam Sensors in processes such as biotechnology, effluent treatment, and food and chemical manufacture. It uses Hycontrol Charis's unique IMA Sensing technology to sense and control foam at a fixed level or to reduce it to a minimum. The Controller can discriminate between foam and liquid at the sensor tip from the change in density. The main uses are the control of foam when varying liquid levels may be present.

The SureSense range is designed primarily for reliability and will operate correctly even in the presence of severe fouling of the sensor. The controller can be used for "stand alone" control for foam and liquid or can be interfaced to a process controller.

An adjustable response time discriminates between foam or liquid and splashing or other spurious triggers. A dosing or shot time can be set for the operation of a pump or valve for antifoam addition. Separate liquid and foam switches (volt-free contacts) can be used for point detection and an analogue o/p for level indication. When foam is detected the foam output switches, but when the liquid is detected the foam output is reset and the liquid output switches.



Registered Trade Mark

ELECTRICAL DATA

Power Supply	110 , 230 Volts a.c., 50 Hz, or 24 V d.c.
Indicators	Power : This illuminates when the unit is connected to the power supply. Sense : This illuminates when foam is first detected. Activate : This illuminates when foam has been detected continuously for the delay time and stays on until foam collapses.
Response Time	1,2,4,8,12,16,20,24,28,32,36,40,44,52 or 60 seconds. (set by dil switches)
Sensitivity	0.35K to 100K ohms impedance. (set by dil switches)
Fouling Immunity	Sensitivity to fouling <1% of sensitivity to foam with Charis Sensors.
Output Liquid	'Volt-free' c/o contacts rated at 240 Volts a.c./30 Volts d.c., 2 amps.
Output Foam	'Volt-free' c/o contacts rated at 240 Volts a.c./30 Volts d.c., 2 amps.
Combined Output	0-20 mA, 4-20 mA analogue output.

ENCLOSURE DATA

IP Rating	IP65 wall mounting.
Dimensions	Height 225 (including glands), Width 240, Depth 115mm
Connections	Screw terminals. Cable entry via PG11 cable glands x 4.



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