

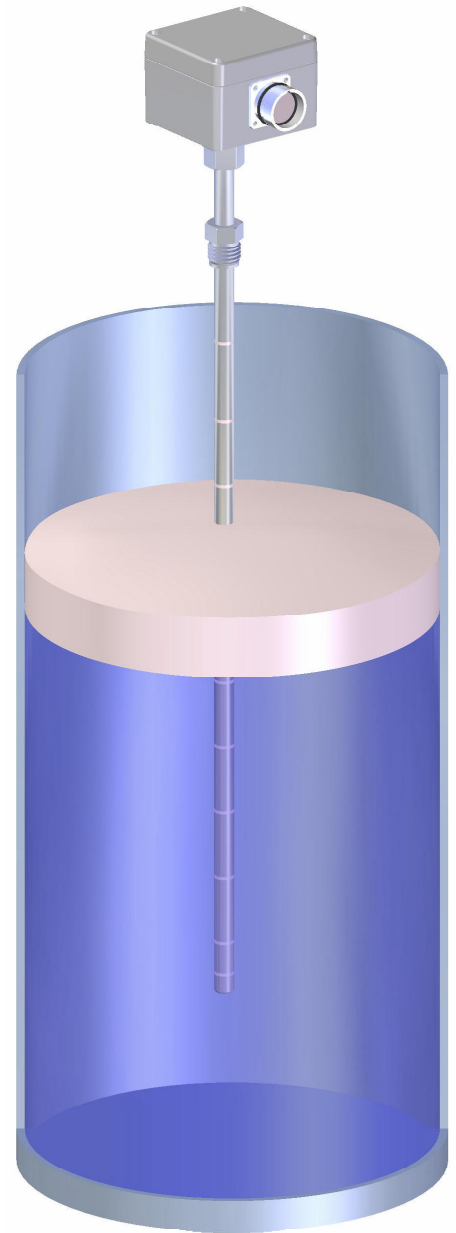
Multi-Sense FOAM LEVEL CONTROLLER DATA SHEET

DESCRIPTION

The Multi-Sense is a new type of level sensor which uses an array of small sensors built into one body. Each sensor acts as a separate micro-sensor which is used to measure the material adjacent to it. This allows very high accuracy and enables a number of separate parameters to be measured at the same time. The micro-sensors also act together in an array to give more information on the material and to detect interfaces between phases in the material, e.g. liquid and foam or different liquids.

The system comprises a sensor and a controller. The sensor is entered into the material being measured e.g. a fermenter or mixing vessel and is connected to the controller by special cables. The system makes use of Charis proprietary IMA sensing technology to give fouling immunity and high precision.

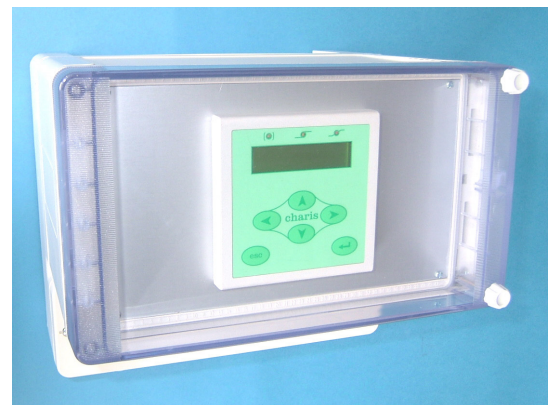
The system is particularly designed to measure and control foam. The level control can be used to manage processes in which foam is unwanted but also those in which foam is a necessary part of the process.



Registered Trade Mark

FEATURES

- Liquid and Foam Level Control in One Sensor
- Immune to Fouling
- Hygienic Construction
- Pump Control Output
- No moving parts
- Liquid level control ignoring foam
- Conductivity measurements



Multi-Sense FOAM LEVEL CONTROLLER

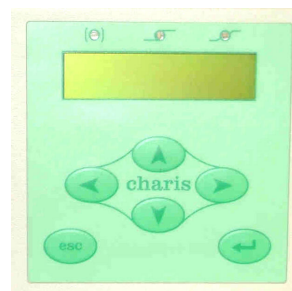
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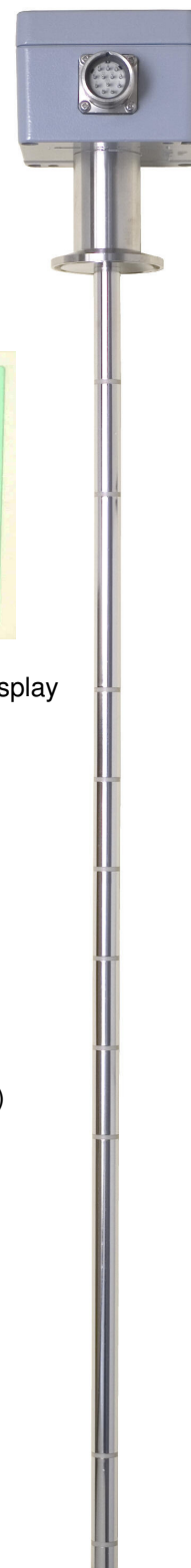
MEASUREMENT & CONTROL

APPLICATIONS

- Bioreactor Foam Control
- Water Treatment Level Control
- De-inking Flotation Processes
- Mineral Recovery
- Foam Control on varying liquid levels
- Liquid level Control



Remote panel mounting display



TECHNICAL DATA

Power Supply	90 - 230 Volts a.c., 1 amp.
Outputs	4-20 mA –liquid level + 4-20 mA- foam level
Level Control	'Volt-free' c/o contacts rated at 240 Volts a.c., 2 amps.
Foam Control	'Volt-free' c/o contacts rated at 240 Volts a.c., 2 amps.
Enclosure	Wall Mounting 260 width x 215 depth x 230 height mm with option for remote panel mounted display (80 x 80mm)
Sensor Diameter	12mm ,or 20mm
Sensor Length	250 mm - 3 M
Temperature	180° C max.
Pressure	25 bars max.
Sensor Fitting	PG13.5, 1.5" & 2" sanitary, and many others.
Height Resolution	0.2 mm
Conductivity range	2 – 100,000 microSiemens (reduced resolution at low conductivity)
Enclosure	Wall mounting IP65, 230 x 240 x 260mm

Charis Technology Ltd Unit J Altbarn Close, Revenge Road, Lordswood Ind. Est. Chatham, Kent, ME5 8UD, UK
Tel: +44 (0)1622 751731 Fax: +44 (0)1622 688922 Website: www.charis.uk.com Email: sales@charis.uk.com June 2008

LISCO Analytical

Lisco Analytical ApS
Naverland 2 · DK-2600 Glostrup
Tel.: 3990 3905 · www.Liscotech.dk