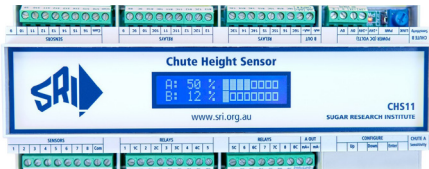


SRI Chute Height Sensors CHS11



Sugar Research Institute's Chute Height Sensor accurately measures cane height in chutes to control sugar mill feed rate, maximise sugar extraction, lower mill stress and energy use.

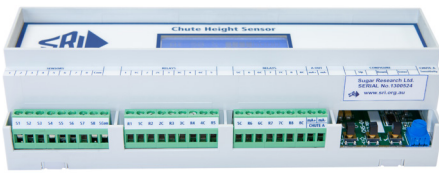
SRI Chute Height Sensor Features (CHS11)

- Compact DIN rail mounted design for easy installation inside existing control panels.
- Sixteen SPST relay outputs for easy connection to visual indicators, or to an independent alarm system.
- Each sensor monitors one chute (up to 16 electrodes) or two chutes (8 electrodes each) with a 4-20mA analogue output for each chute.
- Each chute is independently configured using simple, on-unit controls.

Designed in-house by SRI's world-renowned experts, SRI's *Chute Height Sensor* is an essential factory instrument used for the control of sugar mill throughput via mill speed, carrier speed or Donnelly chute settings.

Chute height control is an important regulating component that evens out bagasse flow through the mill to maintain consistent milling operations.

The height is measured via stainless steel electrodes installed in the chute wall that determine the presence of material at each electrode. The *SRI Chute Height Sensor* determines the number of electrodes covered and alerts the mill control system.



SRI Chute Height Sensor Specifications (CHSI I)

CHSI I processor unit

- Supply voltage: 24VDC
- Analogue outputs: 2 x 4-20mA (900Ω load resistance, isolated from supply)
- Relay outputs: 16 x SPST (24VDC or 24VAC, 2A rated)
- 35mm DIN rail mounting
- LCD display: 2 lines x 16 alphanumeric characters
- Dimensions: 210 x 90 x 60mm
- Protection class: IP00 (for mounting in existing control panels)

CHSI I electrodes (sold separately)

- Electrode construction: low profile stainless steel, pactene insulators, single hole mounting in chute
- Number of electrodes: 4-16 in steps of 2 (single chute mode), 2 x 4-8 in steps of 2 (dual chute mode)
- Minimum material moisture content: 45%
- Maximum cable length (electrode to CHSI I): 25m

Maximises sugar extraction

Juice reabsorption is reduced, because roller nip pressure is constant and “juice short circuiting” is avoided.

Lower mill stress

Mill loadings are kept within safe limits, because a controlled feed rate reduces mill speed and torque variations.

Lower energy use

SRI's *Chute Height Sensors* reduce energy usage and lower risk of mechanical failure as a result of the more consistent mill feed, improving productivity through higher extraction rates for mills with good chute height control.

Calibration

SRI *Chute Height Sensors* must be calibrated in-situ for best operation. No additional equipment is required, as all configuration and calibration tasks uses the LCD display and keypad on the CHSI I processor unit.

Product support

To access free product support by email, phone or fax, contact SRI or your nearest global representative.

For more product information visit:
<http://srichuteheightsensor.com/>

SALES

For sales enquiries contact SRI or one of our global affiliates, agents and resellers:

Australia	Sugar Research Institute	P: +61 (7) 3231 5088	sri.org.au
Asia	Rasmech Engineering Consultants	P: +614 11 667 870	
Australia, Southeast Asia	Bundaberg Walkers Engineering	P: +61 (7) 4150 8700	bundabergwalkers.com.au
South America, Mexico	Fourteam Engenheiros Associados	P: +55 (22) 2733 1441	fourteam.com.br
Asia, Africa, China	Kunming Light Industry Machinery Company	P: +61 (7) 5630 6538	klim.com.cn
Central America, Caribbean	Nesersa Guatemala SA	P: +502 2317 7500	nesersa.com
Africa	Queensland Technologies	P: +254 57 202 0403	qtec.co
Asia, Africa, South America	Uttam Sucrotech International	P: +91 (120) 472 6400	usipl.com
North America	Wet Solutions LLC	P: +1 (267) 207 3582	www.wetsolutionsllc.com