SENCON
SENSING • TESTING • GAUGING

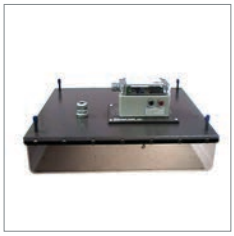
Area Mass Sensors

Smooth, precise, self-correcting speed control of mass conveyors

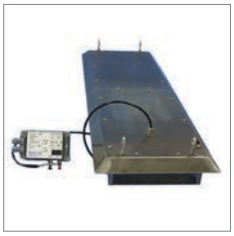
Sencon's AMS monitors product accumulation on mass conveyors — for example, cups on the cupping press discharge or distribution conveyor — then the sensor's analog output is used to regulate the speed of conveyors and coupled machines, adjusting supply and demand to keep the production line running smoothly.

- **Cupping Press Modulation**
- **Stable Conveyor Conditions**
- **Conveyor Pressure Control**
- **Versions for oily and washdown environments**





AMS600 for oily environments



AMS300 for washdown areas



T400 WR-UC Reciever/Output

Ordering Information

CODE	DESCRIPTION	SENSING AREA
AMS2400-12	Area Mass Sensor - normal environments	10.25" (260mm) x 10" (255mm)
AMS2400-18	Area Mass Sensor - normal environments	16.25" (413mm) x 10" (255mm)
AMS2400-24	Area Mass Sensor - normal environments	22.25" (565mm) x 5" (127mm)
AMS2400-30	Area Mass Sensor - normal environments	28.25" (718mm) x 5" (127mm)
AMS2400-36	Area Mass Sensor - normal environments	34.25" (870mm) x 5" (127mm)
AMS2400-42	Area Mass Sensor - normal environments	40.25" (1022mm) x 5" (127mm)
AMS2400-48	Area Mass Sensor - normal environments	46.25" (1175mm) x 5" (127mm)
AMS2400-72	Area Mass Sensor - normal environments	70.25" (1784mm) x 5" (127mm)
AMS2400-96	Area Mass Sensor - normal environments	94.25" (2394mm) x 5" (127mm)
AMS300-36	Area Mass Sensor - washdown applications	9.25" (235mm) x 33.25" (845mm)
AMS300-72	Area Mass Sensor - washdown applications	9.25" (235mm) x 66.25" (1683mm)
AMS600-18	Area Mass Sensor - oily environments	15.5" (394mm) x 17.5" (444mm)
AMS600-36	Area Mass Sensor - oily environments	15.5" (394mm) x 34.5" (876mm)

Please Note: Select the sensing array dimension to suit your conveyor width.
The AMS 2400 includes a sensing array of coated stainless steel wires on a stainless steel frame with an attached T400WR-UC.
The AMS 600 Area Mass Sensors include an enclosed sensing wire array, available in two sensing areas, with an attached T400WR-UC.

Optional Extras

CODE	ITEM	DESCRIPTION
T400 WR-UC	Receiver/Output Module	Enclosed Module

CONTROL DOWN THE LINE WITH THE WORLD'S MOST WIDELY USED CAN MAKING SENSORS

Uniquely designed and precision made by Sencon, exclusively for the metal packaging industry

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TECHNICAL SPECIFICATIONS

Operating Voltage:	11 to 24 VDC
Power Consumption:	3 Watts
Operating Temperature:	0°C to 50°C (32°F to 122°F) 0 to 90% relative humidity, non-condensing
Analog Output:	Default: 0 to 10 VDC Selectable: 4 to 20 mA
Method of Detection:	Capacitance deviation. Detector wire is electrically isolated from input and output power.
Alarm Outputs:	**Maximum Load:** 75 mA. Typical ON resistance at 25 mA is 25Ω. 500 mW maximum power through the switch **Voltage Range:** 0 to 240 VAC RMS or 0 to 380 VDC **Leakage Current:** <1 microamp **Output Type:** Bi - directional, isolated solid state switches **Output Configuration:** Suitable for DC source, DC sink, or AC

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AREA MASS SENSOR

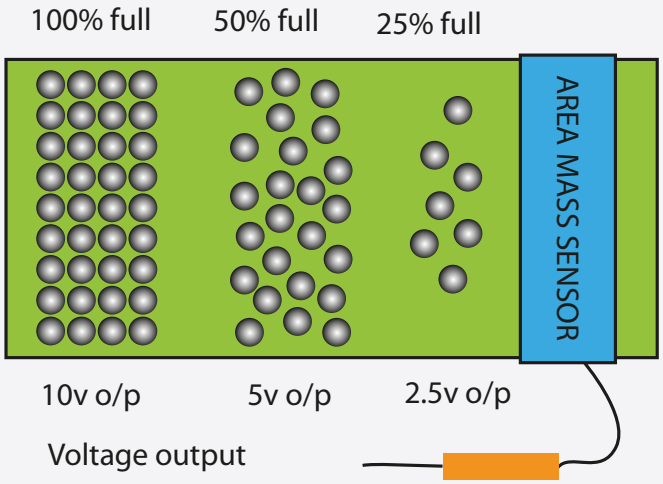
The Area Mass Sensor takes control of mass conveyors to the next level. This sensor monitors can or cup density over a wider area of the conveyor, delivering an output that adjusts machine speeds in real-time. This is particularly useful for ensuring that cans fed into downstream machines are packed correctly and consistently, preventing jams or the risk of cans falling over when they are not closely packed enough.

STABLE CONVEYOR CONDITIONS: Conveyor stability is vital for today's lightweight cans and high speed machinery. The AMS enables complete control, creating optimum conveyor conditions and accumulation space as well as minimum can pressure.

CONVEYOR PRESSURE CONTROL: This is accomplished by varying conveyor speed relative to fill level. When full, the conveyor should run at machine rate, creating no excess can pressure. However, as the conveyor empties, the speed should increase. Thus, when recovering from an empty-out situation, conveyor speed is at a maximum, reducing transit and refill times and adding precious seconds into line efficiency.

CUPPING PRESS MODULATION: The AMS is frequently used to monitor cup accumulation on the cupping press discharge or distribution conveyor. The AMS analog output is used to regulate the variable speed drive of the cupping press, adjusting the rate of press strokes based on cup demand.

HOW THE SYSTEM WORKS:



These systems work on Sencon's proven capacitance sensing principles and use an array of coated stainless steel wires or a wire mesh as the sensing element. This may be suspended over the conveyor in a canopy fashion, constructing a sensing window the size of the sensing element area. The sensing array is connected to a transmitter (T400WR-UC) which converts the sensor transmitter signal to a control signal — either analog or digital. Output signals are proportional to the number of cans within the sensing window.

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We are committed to providing the best customer support worldwide with service engineers based in North and South America, Europe and Asia backed up with technical support from experienced industry specialists based at three technical support centers – you can trust Sencon.

Technical support is easily accessible through our 'Quick Assist' QR codes which offer support via WhatsApp*, email, web chat and telephone. Additionally, our online knowledge base provides support resources for all Sencon products.

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