



GROWTH THROUGH INNOVATION

IN-LINE SENSORS

Daily cow information for better informed decisions and greater profitability. A 4-in-1 sensor solution that will provide you with the maximum benefits from dairy automation and the greatest return on your investment both practically and financially.



- In-line installation onto the main milk line.
- One sensor installed per bail.
- Minimal wiring. Wireless connection from rotary interface unit to command centre. No additional wiring onto the rotary platform.
- Unique high frequency through plastic sensing. No electrodes in contact with the milk, reducing fouling and build up, prolonging life.
- No moving parts.
- Cleans in place as part of the plant cleaning cycle.
- No reagent.
- No effect on vacuum.
- Every bail, every milking gives many advantages:
 - Exception filtering
 - Statistical averaging
 - Trend analysis
 - Change detection
 - Ranking.



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4-in-1 sensor

1. Mastitis Prediction

- Measurement of first foremilk of every cow.
- Alerts for checking cows likely to have mastitis (to save stripping whole herd).
- Measurement stored for every cow, every milking.
- Individual cow level compared to the herd as one indication of mastitis (Mastitis Ratio).
- Change in individual cow level as additional indication of mastitis (Prime Mastitis).
- Mastitis ranking (from worst to best indicator) for alerts in-shed on Display Screens.
- Mastitis trend lines viewed in Herd-Man Online Management tool.
- Mastitis measurements in combination with yield, weight, treatments for complete health picture in Herd-Man.
- In-shed alerts from Herd-Man using any mastitis related data.

2. Yield

- Volume yield to find poor producing cows.
- Measurement of instantaneous milk flow.
- Summing flow 10 times a second to get volume yield.
- Individual cow yield compared to the herd average (Yield Ratio).
- Change in yield as an indication of yield trend (Prime Yield).
- Yield ranking (from lowest to highest) for alerts in-shed.
- Yield in litres when calibrated from tanker pickup in Herd-Man.
- Yield ranking and trend reports in Herd-Man.
- Yield measurements in combination with mastitis, weight, treatments for complete health picture in Herd-Man.
- Yield ranking in combination with weight for milking efficiency.

3. Plant Milking Performance

- Bail milking performance to ensure correct milking operation.
- Measurement of milk flow characteristics of all cows cupped on each bail.
- Long term average characteristic to eliminate the cow effect and expose the underlying bail characteristics.
- Individual bails compare the platform average characteristic to give likely cup slip (Slip Ratio), air in milk (Air Ratio) and milking time (Duration Ratio).
- Results and alerts presented in-shed as a plant summary on Display Screens.
- Alerts presented on Herd-Man reports.

4. Cleaning Performance

- Bail cleaning performance to ensure correct cleaning.
- Measurement of cleaning solution flow characteristics on each bail.
- Result for cleaning at the end of each milking.
- Bail figures for each bail for flow volume (Volume, range normal range 1 to 10), flow rate (Flow, 1 for normal full flow), and cleaning temperature (Temperature, target hot water >65 degree C).
- Results and alerts presented in-shed as a plant summary on Display Screens.
- Alerts presented on Herd-Man reports.

Installation

- Installation by DTS installers.
- Mounted onto the main milk line, the long milk hose is connected directly onto the in-line sensor and from there onto the main milk line.
- There is no effect on flow or vacuum.
- Minimal 2-wire ring connection to all sensors for simple and reliable installation.
- Communicates wirelessly off the rotary platform, no additional wiring onto the platform.

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