

PRODUCT BENEFITS

- » Ensure stun effectiveness to meet animal welfare, operator safety and meat quality standards.
- » Identifies any equipment faults.
- » Measures operator performance.
- » Assists with stun operator training.
- » Records stun data for compliance audit requirements.

SUITABLE FOR:

- » Cattle
- » Pigs
- » Sheep
- » Deer
- » Goats



WHO ARE WE?

Carne Technologies is committed to providing systems and expertise to improve product quality and processing efficiencies in the primary, secondary and retail meat sectors.

We develop, manufacture and supply state-of-the art technologies for use in carcass processing, and real-time quality measurement systems. The technologies are integrated with in-depth consultancy to design, tailor or optimise processes and procedures in the abattoir, boning room or retail meat preparation facility. Our highly experienced technical team provide remote support for all our equipment and can problem solve processing and quality problems.

The pioneering technologies we have developed in New Zealand are being used by meat processors around the globe.



ELECTRICAL STUN MONITOR & LOGGER

Ensures your electrical stunning system meets animal welfare, operator safety and meat quality standards

CARNE TECHNOLOGIES

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INTRODUCTION

The Carne Technologies Stun Monitor and Logger (CTSML) monitors and records the electrical information of each stun. In addition, the CTSML is designed as a training aid to help improve the performance of stun operators: it provides immediate feedback to the operator to show whether or not the stun meets the requirements of an effective stun.

The CTSML is compatible with a wide range of manual and automated stunning systems and for any species stunned electrically, including beef, sheep, pigs and goats. It can be installed as part of a new electrical stun system or easily added onto an existing electrical stun system by plant electricians.

The CTSML is an essential component of stun performance monitoring and of total quality assurance in the critical areas of animal welfare, electrical safety and meat quality.

DISPLAYS

- » A 12 inch touch screen displays the stun amperage and voltage in real time.
- » The display immediately alerts any aspect of the stun that fails to meet requirements
- » A scroll function allows earlier stun traces to be brought up and inspected.
- » A summary statistics graph shows the incidence of stuns that fail to meet requirements
- » All stun information can be accessed and displayed in real time on other devices to enable supervisors and managers to view operations.

MONITOR FUNCTION

For each animal stunned, the CTSML continuously monitors the electrical current, voltage and frequency. The RMS value for each cycle of the voltage and current waveform is captured and stored.

The CTSML creates a summary record at the end of each stun. This includes:

- » Date and time of stun.
- » Time to reach minimum stun level from start of stun (induction time).
- » Time to the first low current event (stun current less than minimum required level).
- » Maximum and minimum current.
- » Maximum and minimum voltage.
- » Total duration of stun.
- » Pass/fail for effective stun induction.
- » Pass/fail for effective stun duration.
- » A complete trace of the amperage and voltage used for the stun is recorded.
- » Individual operators can be identified and their individual performances monitored.

The CTSML supplies daily overviews of stun statistics including the total number of stuns, passes, failures for each day.

An analytical software package allows all the stuns to be reviewed by selecting specified time periods and operators.

COMMUNICATIONS

The stun loggers are equipped with a RJ45 jack, over which 100Mb/100Mb Ethernet is supported. A minimum cable specification of Cat 5e or greater should be used for attaching the logger onto a network for data access.

SPECIAL FEATURES

- » The CTSML can be interfaced with any stun system, whether manual or automatic.
- » A settings page allows the minimum requirement of the stun to be defined.
- » A built-in automated calibration facility allows the CTSML voltage and amperage measurements to be regularly calibrated.
- » An additional output plug allows connection of a remote display. This supplies LED or auditory signals near the operator to identify inadequate stunning in real time.
- » The CTSML comes with standalone software which can be installed on a desktop or laptop computer, and that generates detailed analysis and performance charts on current and historical data.

ELECTRICAL SPECIFICATIONS

Power Input: 100-240VAC at ~40W
Stun Voltage Input: 600VRMS

DIMENSIONS

460mm x 245mm x 160mm

