

# Feedlot Weather & HLI / AHLU Monitor

## Heat Stress Management for Livestock



Excessive heat load (EHL), or heat stress, can be detrimental to the health and wellbeing of livestock (potentially resulting in death), as well as leading to reduced feed intake, fertility and milk production. For primary producers this equates to a loss of income and increase in operational costs. Therefore, being forewarned and knowing when to implement effective heat stress management programs, is crucial to a productive livestock industry.

### Key Features and Benefits

- **Respond Quickly To Excessive Heat Load Events**  
Activate your EHL event response plan prior to physical signs of heat stress being identified. Avoid production losses and possible cattle deaths.
- **Complete Automation**  
No time-consuming manual measurements or calculations required.
- **Long-Term Reliability - Made For Rugged Environments**  
No moving parts means no maintenance. Sensors are “field-replaceable” by the user.
- **Fast Installation**  
Integrated “turn-key” design simplifies on-site installation. Professional installer or electrician not required.



The Pacific Data Systems Australia Feedlot Weather Heat Load Index and Accumulated Heat Load Unit (HLI & AHLU) Monitor addresses the needs of the livestock and feedlot industry.

The HLI & AHLU Monitor records relative humidity, wind speed and black globe temperature readings. It then uses these readings to calculate the Heat Load Index and Accumulated Heat Load Unit, to assess and inform producers on the real-time heat stress conditions experienced by livestock.

The system has been engineered and manufactured in Australia using custom-developed sensors and existing instrumentation.



**Standard Inclusions**

- *Ultrasonic windspeed / direction sensor*
- *Black Globe Temperature sensor*
- *Temperature, humidity, barometric pressure sensor*
- *3G data logger*
- *Mast*
- *Solar panel and battery backup*

**Optional**



*Additional data communication options (Radio, Satellite)*

- Access your HLI & AHLU Monitor anywhere, anytime\*



*Tipping bucket rain gauge / Optical Rain Sensor*

- For a complete weather station.

**Specifications**

Sensor	Accuracy	AS (Australian Standard)
Wind speed	0.3 m/s or < 3%, whichever is larger	±2 m/s or 1%
Wind direction	±3°	±3°
Relative humidity	At 30°C - ±2% (15-90%) At 40°C - ±2% (25-60%), ±3% (65-90%) At 50°C - ±2% (25-60%), ±3% (65-90%)	±2% (10-90%), ±4% (90-100%)
Air temperature	±0.3°C	±0.3°C
Black Globe Temperature (BGT)	±0.2°C	-

\*requires PC or iOS device with a suitable Internet connection