

Application Note: Animal Weighing - Live Weigh Feature (R300/X320)



The Live Weighing algorithm is specialised to cater for animal movement and is available in both the R300 Series and X320 indicators, depending on the environmental conditions.

- IP69K Protection with the X320 - for the toughest environments, suitable for high pressure wash-down.
- IP65 Protection with the R300 Series - dust and water tight for increased reliability and life time
 - R320 ABS housing
 - R323 stainless steel housing

The X320 and R300's both feature:

- Backlit LCD display for easy reading in low light
- Print weight data and time (configurable fields and format)
- Bluetooth for a wireless connection between the weight indicator and a PC

This algorithm is based on collecting multiple weight samples and then filtering out the noisy samples to resolve a weight. There is an extra function that allows the algorithm to retrigger if the weight changes by an Operator set percentage without entering the zero-band first.

The Rinstrum Bluetooth accessories use the serial port profile (SPP) to provide a short range RS232 to Bluetooth wireless connection. The devices are self discovering and no setup is required at the host device.

- Self discovering
- No setup
- Up to 20m (65ft) wireless
- Dedicated point to point option
- Multi-roaming option
- Status LED

Indicator Setup

The menu selection LIVE has these settings:

- Target - The weight to be exceeded before the indicator will start the livestock weighing function.
- Delay – The time in seconds that the indicator will wait after the target weight is exceeded before it starts collecting weight samples.
- Sample - The number of seconds worth of weight samples to collect.
- Tol – Indication of how many noisy samples to discard, where 1 discards the least and 9 discards the greatest number of samples.
- Retrig - Re-trigger is the percentage that the weight on the scale must change by to restart the weighing process once a held weight has been displayed. A value of 0 means that retrigger is disabled.

To enable the live weighing function the Function Key is set to Live in the SPEC.KEY.FN menu.

Long press of the Function key - toggle the weighing mode between normal and live weighing.

Short press of the Function key

- In normal mode will hold the display reading.
- In live weighing mode will restart the delay and sample collection process.

Note: When the live weigh function is collecting data or delaying the hold indicator will flash and when the weigh has been determined the hold indicator will be turned on.

Feature available with the following Application Software

- K306 for the X320
- K305 for the R320 and R323

For more information refer to the Reference Manual for these products