



Electro Mechanical Weigh Frames

ACCUWEIGH® -4 – Four Weigh Idler, Counter-balanced Approach/Retreat Belt Scale

This model incorporates a low deflection, rugged, *counter-balanced*, four weigh idler, *Approach/Retreat* type weigh bridge design with a single, precision load cell, operating in tension, to provide superior weighing performance. The *load sensor assembly incorporates overload protection* and protection against mechanical shock.

This scale model is supplied with a, simple to operate, *On-Board Test Weight* allowing calibration checks to be made as often as may be required, to determine the *As-Found-Error* (AFE) thereby ensuring that the scale remains accurate.

Due to the counter-balanced design of this weighing system, it is ideally suited to applications such as:-

- Lighter belt loading applications (low bulk density materials).
- Widely varying feed rate applications where a large dynamic operating range is essential.

- For higher capacity applications at higher belt speeds.
- Applications employing thicker belts.
- Applications with steeper troughing angles.
- Applications in higher belt tension areas.
- Wide belts.
- Superior performance requirements.
- Where long-term high performance is essential.
- Longer Maintenance Interval (MI) – time between calibration checks.

This system should be considered for applications where performance is the major consideration, where available mounting space precludes the use of the longer ACCUWEIGH® -6. It is also ideal for applications requiring reduced maintenance.

The Accuweigh® -4 is *Approved for Custody Transfer applications* (S.A. Approval No. 1281).



Process Automation manufactures a variety of belt scales in acknowledgement of our customers (applications) varied requirements. The Scale Models differ primarily in the weigh bridge designs. These weigh bridges vary, not only in their length (number of weighing idlers), but also on their technology (principle of operation).

Weigh Bridge Accuweigh®-4

Technology	Counter-balanced, Approach-Retreat type
Variants	Available in Standard or Heavy Duty
Upgrade paths	NIL
Weigh bridge construction	Welded mild steel. Others optional
Paint Finish	Epoxy std (Proprietary Colour) - Specials optional
Conveyor widths	300 mm through 2400 mm
Calibration reference	On-Board calibration weight
Operating temperature range	-40°C to + 80°C Std.
Weight	Subject to belt width and application duty (Std or Heavy Duty)

Load Sensor

Mounting Assembly	Protected against conveyor overload and mechanical shock
Type	High precision strain gauge
Material	Stainless Steel
Class	± 0.03% of capacity
Electrical cable length supplied	10 meters std – other optional
Protection	IP 67
Operating temperature range	-20°C to +60°C
Temperature compensated range	-10°C to +40°C

