Product Specifications

Single Idler Belt Scale

EASYWEIGH®

Process Automation manufactures a range of conveyor belt scales to suit various applications ranging from high accuracy accounting scales to control and rate indicators.

Using the advanced UniproIV microprocessor based weighing transmitter to compute rate (T/H) and totalized tons along with instantaneous belt load (kg/m) and speed (m/min) indications. The descriptive and user-friendly display interface allows for easy operation without referring to the manual.

EASYWEIGH® Applications:

- Feed & blend control
- Rate indication
- Up to 1350mm belt width
- Limited spaces
- Ore beneficiation processes
- ≤ +/-0.5% Accuracy

PT500 - high accuracy belt speed sensor. Rugged design for extended life under harsh mining conditions.

EASYWEIGH®

Weighbridge	
Construction	Single weigh idler, counterbalanced, weigh frame of welded mild steel with maintenance-free pivots. (1)
Mounting	Stringer mounted, low profile, mounts in place of standard conveyor idlers. Belt widths from 300mm to 1350mm. (2)
Idlers	For best accuracy weigh class idlers are recommended on the weigh bridge as well as two or three before and after the weigh area.
Accuracy	≤ +/-0,5% On approved installations.
UNIPRO^{IV} Weighing Transmitter	
Mounting	Field / Wall mount in single or double door enclosure.
Construction	Powder coated mild steel enclosure. (1)
Protection	IP54 weather proof enclosure. (3)
Power Supply	- 90 to 250Vac (Auto-switch mode) - 50/60Hz - 50VA
Outputs (4)	- Isolated 0/4 - 20 mA (1kΩ max.), Programmable for either Rate (T/H) or Control. - 1 x Volt free relay contact. Rating 0.5 A at max. 24 Vdc Programmable for either remote Totalisation or Sampler control.
Serial Communication options	- ProfiBus DP / PA - ModBus RTU - DeviceNet - Allen Bradley Remote I/O - ControlNet - Ethernet (Ethernet/IP & Modbus TCP/IP)
Mass	10kg

1. Other materials e.g. Stainless steel upon request.
2. Special mounting on request.
3. Other e.g. IP65 on request.
4. Additional digital & analogue I/O available on request

EASYWEIGH®

Load Sensor	
Mounting	Mounted under tension, providing immunity to load shifts. Protected against overload and shock.
Quantity & type	Single, Stainless Steel precision beam type load cell
Protection	IP68 Hermetically sealed
Excitation	5Vdc ±5% (From UNIPRO^{IV})
Output	2mV/V ±0.1%
Overload	Safe 150%, Ultimate 200%
Speed Sensor	
Construction	Cast Aluminium housing with high wear-resistant drive wheel
Type	High accuracy digital encoder (500 pulses/Rev)
Mounting	Non-driven pulley stub shaft or via drive wheel in contact with belt
Protection	IP65
Excitation	12-30Vdc (From UNIPRO^{IV})
Low Speed range	0.1 to 25m/min (0.0016 to 0.417m/sec)
Standard Speed range	25 to 600m/min (0.417 to 10m/sec)

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