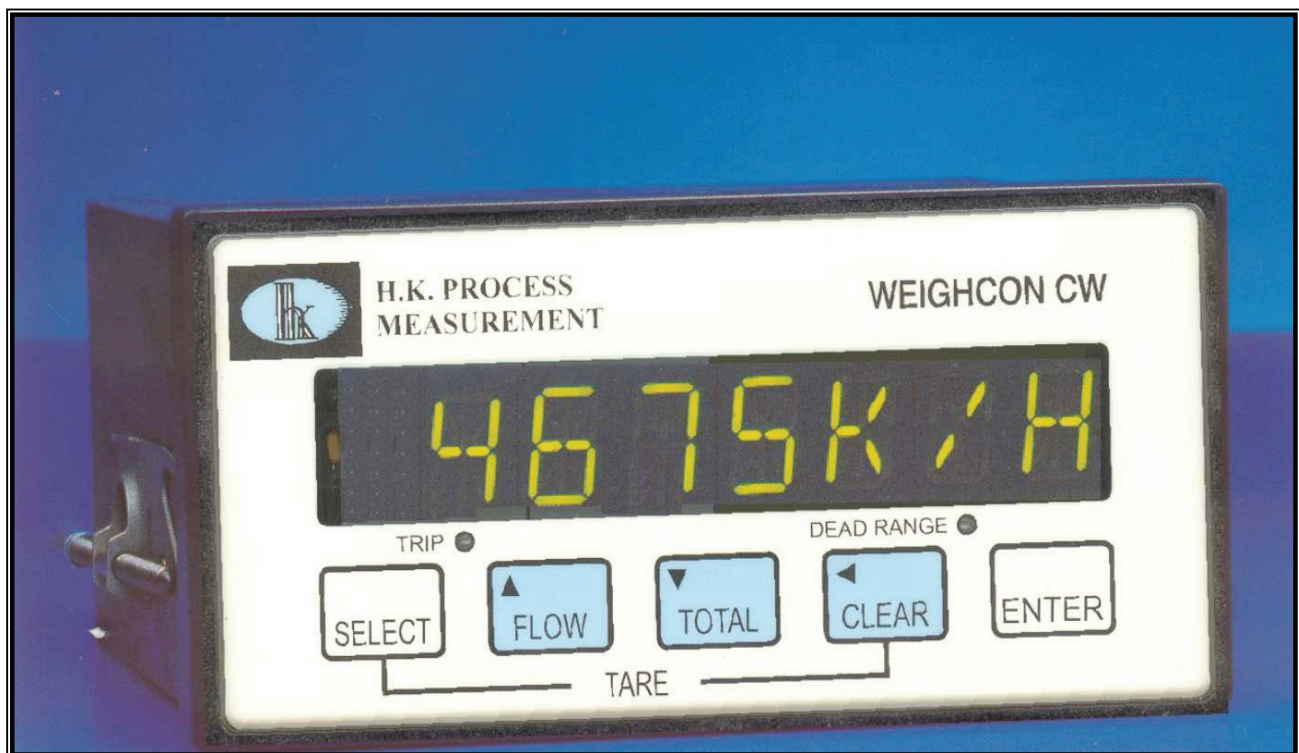




**H.K.PROCESS
MEASUREMENT**

WEIGHCON CW BELT WEIGHER INDICATOR



Features:

- Dynamic Tare, Calibration & Deadband Adjustment by simple pushbutton operation
- Automatic Zero Adjustment
- Choice of kg/hour or tonnes/hour Flow Rate Display
- Both Resettable and Non-Resettable Totals
- Remote Display & Totalising Counter Options
- Computer Link, Printer & Analogue Output Options

Description

The WEIGHCON CW Belt Weigher Indicator connects with 1-2 strain gauge load cells fitted to a belt weigher mechanism from which it generates a calibrated weight signal. It also connects with a proximity switch, operating as a digital tacho, from which it receives pulses in proportion to belt movement. From these two inputs and from calibration and control data held in its system memory it continually calculates the rate of flow of material over the belt and the total quantity of material transferred.

Optionally, in applications where belt speed variations are insignificant, the indicator may operate from an internal tacho pulse simulator.

The display may be selected to Flow, Resettable or Non-Resettable Total at any time via the front panel keys. Access may be gained to the control and calibration data which is pass- number protected



Technical Data

Models available:

Model CW Basic
CWA Analogue Output
CWU RS485 Bus Output

All AC powered. Add suffix 'D' for DC powered

Supply Power:

Universal fused power supply 85-264V AC or 9-36V DC. Internal Mains Filter fitted. Power consumption 10VA max

Load Cell Excitation:

10V DC @ 60mA max, 1 to 2 x 350 ohm load cells may be connected.

Tacho Input:

3 wire NPN or volt free contact
Range 0-500 Hz

Enclosure:

Panel mounting DIN case IP65 sealed
144mm wide x 72mm high x 132mm deep
Cutout 138mm wide x 68mm high

Environment:

Operate 0-50°C, 20-80% RH
Non-condensing. Storage 40 to 80°C

Dynamic Tare Once started by simple pushbutton operation when the belt is running empty, the system automatically totalises the weight both +ve and -ve over a number of belt movement pulses. When complete it adjusts the weigher zero accordingly.

Dynamic Calibration Check & Recalibration Once similarly started by pushbutton operation, a known weight is passed over the weigher, totalising is stopped and the total is observed to make a calibration check. To make a recalibration the known weight is entered.

Deadband Adjustment A control parameter determines the minimum flow rate below which the indicator ceases to totalise.

Auto Zero Adjustment The internal Dynamic Zero is automatically adjusted by a small amount whenever the unit is running within the Dead Range.

Digital Outputs An Output Pulse that may be wired to one or more totalising counters produces a pulse for every pre- set quantity transferred over the weigher.

An Output Trip typically wired to a spray or other process device comes on whenever the flow rate is above a pre-set value.

Remote Display A WEIGHCON NC Display, a similar unit to the CW but without front panel keys, may be connected to the CWU model via the RS485 serial bus.

Unity Bus Version The CWU model has an RS485 multidrop serial bus interface via which it may drive a remote display (WEIGHCON NC) or communicate with a computer or PLC control system.

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