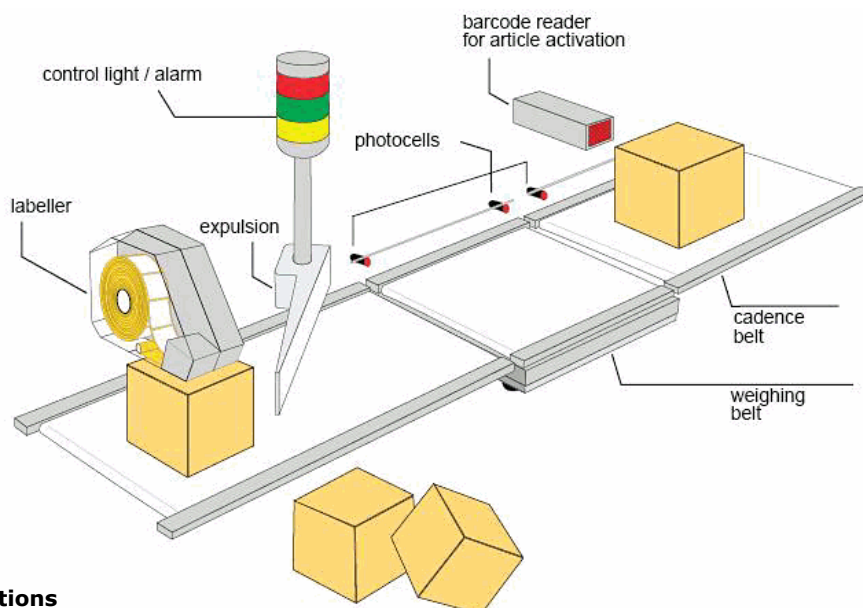# Firmware for
Checkweighing FW-CW

Special firmware for OEM systems for industrial automation.

Weight control through the static or dynamic weighing of pre-packaged products on a conveyor belt.

Features

Properties / functions

- static or dynamic weighing, with management of pack detection photo cell
- dynamic weighing with two START/STOP photo cells
- static or dynamic weighing without photo cell (for Pick and Place lines)
- tolerance check:
- – by target, through articles database, with setting of 3 tolerance thresholds, for the physical division of the packs into 7 different groups
- – by programmable weight thresholds (min/max), with articles dabatase
- – by weight thresholds (min/max), through a quickly entry.
- calculation and printing of the statistics and of the standard deviation of the executed weighs
- static or dynamic autozero function of the belt (up to 2% of the flow) after a programmable number of weighs
- advanced management of bar codes, with the possibility of storing, processing, and printing 5 different codes
- automatic printing/clearing of the partial total after a programmable number of weighs
- printing with each executed weigh and eventual automatic storage into the alibi memory
- completely programmable printouts, for compatibility with any ASCII printer manageable through the serial port
- database of 1000 articles with alphanumeric description, target and programmable tolerance thresholds
- setting the density coefficient, for every article, for weighing in ml
- programmable preset tare and activation delay of the expeller for each article
- management of belt speed through analog output, with programmable value for articles
- article selection through reading of bar code

I/O-functies

- cycle activation, RESTART / RESET cycle and START / STOP weigh through external inputs
- management, through a cadence photo cell, of the cadence belt, for optimising the number of packs per minute weighed by the instrument
- management of the automatic expulsion or stopping of the belts for manual expulsion or weight correction
- programmable alarm activation time and tolerance indication; possibility of connection to control light
- activation of the line second speed through an external input, with automatic recalculation of the weighing time (only for weighing with two photo cells)
- analog output (optional) proportional to the weight or managing the belt speed, with programmable values for each article
- serial communication protocol for programming recipes, products and cycle management
- serial communication protocol for programming the articles and managing the cycle
- external Profibus interface (optional), for programming the articles and cycle management
- bluetooth connection (optional) for programming recipes, products and cycle management
- this firmware applies to our weight indicators of the types **HP(R)-Ultra**, **HP(R)-Touch**, **VPI-U** and **VPI-U-Advanced**

- see also the details of the respective weighing indicator

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Principle Diagram