



Production system: Scale

Module of semi and finished goods production in factory workflow level

Manual [English](#) Ver. 2.2

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General structure

Scale system module is central module, which is responsible for new items of semi and finished goods registration. This module performs making of new items registration with chosen articles from appropriate catalogue, input of weight in automatic and manual mode, input of workers handling production items and other related operations in production flow working position.

At main level of this module it containing a number of semi and finished goods item registration sections with feature to produce labels for registered new items. There are next workflow stages, which are all or some of them could be active at single factory, available:

1. Primary stage material semi-goods registration.
2. Secondary stage material semi-goods registration.
3. Custom stage semi-goods registration.
4. Finished goods registration
5. Packing materials registration - any service materials to supervise centrally

Scale module has not only different layouts, but also different register modes in order to register and produce labels for different stages of workflow at satellites customized production.

Scale module supports integration with a number of scale unit standards of automatic weight measurement devices. There could be more devices integrated in case when needed.

All sections of Scale module are able to perform immediate correction of wrongly printed label in case of incorrect print out, printing copies and making of communication with weighing unit to set tare, reset it or set weight to zero.

Primary stage

Scale module Primary section performs registration and printing of raw stage labels registration for arrived material supply to raw material stock. These items and its labels are produced with assignment of next optional parameters depending on chosen workflow and system configuration:

- Primary article;
- Weight – using possibility of communication with automatic from industrial weighing terminals;
- Items in the pack (pieces);
- Personal numbers of workers performing operation

The screenshot shows a software window titled "Sample Factory #1 : Scale #2 - (c) Ver. 3.4.2". It features three tabs: "Primary" (selected), "Analysis", and "Finished".

On the left, a dropdown menu shows "Mixed Rags" and a large display shows "10003".

The main area displays:

- Unit:** kg
- Pack:** (empty field)
- Current weight:** 822 (large green digits)
- Weight:** 0
- Pieces:** 0
- Input weight:** 822
- Test Article Raw:** (text field)

At the bottom, there are several control buttons:

- Print Copy** (with a barcode icon)
- Print** (with a barcode icon)
- STOP Cancel** (with a stop sign icon)
- Manual Weight** (yellow button)
- Set tara** (with a display showing "30")
- Reset tara** (with a display showing ">0<")
- Last#** (with an empty input field)
- Local time** (displaying "03:46")
- Exit** (red button)

Secondary stage

Scale module Secondary section performs registration and making of secondary stage labels registration for items passed from primary semi-goods storage buffer of the factory and passed secondary stage of handling at production. These items are produced with assignment of next optional parameters depending on chosen workflow and system configuration:

- Secondary article;
- Weight – using possibility of communication with automatic from industrial weighing terminals;
- Items in the pack (pieces);
- Personal numbers of workers performing operation

Custom stages

Scale module Custom stages sections could be configured to perform special steps registration of factory workflow and in this way make input and label printing for items passing specially chosen flows of whole production schema of the factory. This could be such ones as analysis of source material quality, analysis of supplied raw material quality, quality control of workers performance, re-packing of returned items or some other. These items are produced with assignment of standard and optional parameters depending on factory system configuration:

- Special item type (Special article);
- Weight – using possibility of communication with automatic from industrial weighing terminals;
- Items in the pack (pieces);
- Custom parameters as delivery item or package ID from supplier.

Sample Factory #1 : Scale #2 - (c) Ver. 3.4.2

Primary **Analysis** Finished

Department: 24745

Unit: kg

Pack: 55 kg

Delivery Part: []

Current weight: **65**

Weight: **55** Pieces: **0**

Input weight: **65**

Analysis #5162

Analysis (R) #5162

Manual Weight

Local time: 03:49

Buttons: OK, Cancel, Set tara (30), Reset tara (>0<), Exit

Scale Finished Goods stage

Scale module performs basic functions in regular system workflow at standard working position. It's used to produce barcode labels and register its weight, article, pieces in package. It produces labels of custom layout according to chosen standard and custom settings of the factory. The module also register a number of other parameters in production data of standard database of the factory. Layout of label is customized specially for every satellite according to provided preferences.

Scale module application is able to operate in different modes with opportunity to support special layout modes – Classical, Custom, Display-only, etc.

Scale module is designed to communicate constantly with central database of whole production system and by this way produce exactly for orders and articles assigned for highest priority in current moment, with taking into consideration already existing packages in storage inventory, articles, packing types and a number of other different factors, which allows to produce automatically in modes “production for order”. This mode is automatically acting when there are active orders need this article. Also there is an option of “production for stock” – it’s used when there is no active orders, all orders are blocked or full.