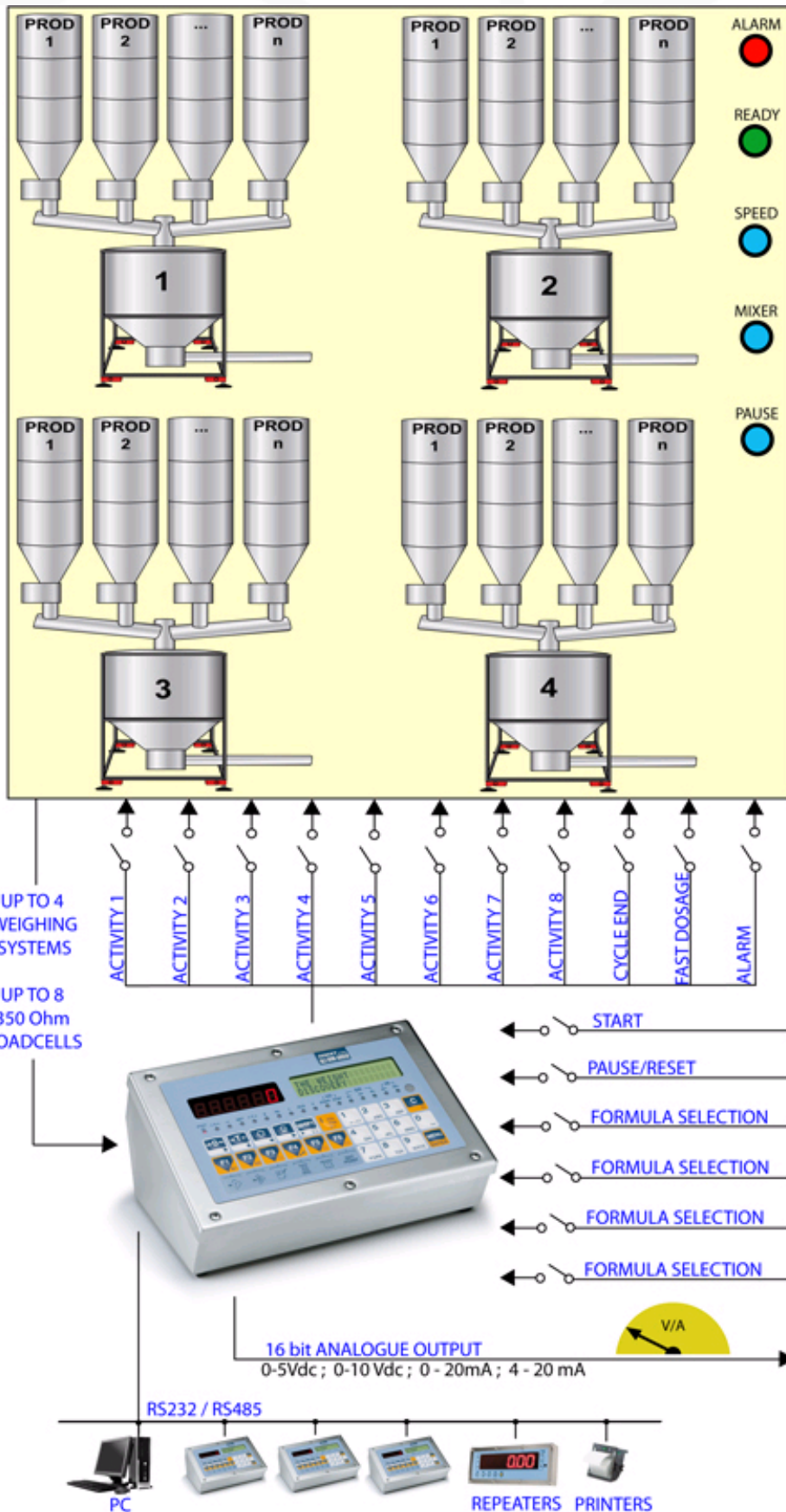


"BATCH": "3590XT" VERSION FOR MULTICOMPONENT DOSAGE SYSTEMS



Software version for automatic multicomponent dosage; possibility of programming up to 100 different activities (products or automations like timers or pause) and 500 formulas, each with up to 20 activities. Direct management of 8 different components through the relay, expandable up to 48 with optional expansion modules. Completely programmable printouts, management of consumptions, possibility of programming infinite repetitions of the dosage cycle. Execution of multiscale sequential dosages (up to 4 different connectable scales).

MAIN FEATURES

- Basic scale functions (clearing, tare, and weight printing).
- Database of 100 products/activities, which may be selected from the following
 - Automatic dosage in loading
 - Manual dosage in loading, with possibility of managing the control light
 - Complete or partial Unloading
 - Fractioned Unloading, for dividing all the dosed material in equal quantities
 - Timer, to activate the mixers, burners, or stirrers for a preestablished time.
 - Pause, to allow the manual operations of the user
 - Manual weight, to add the pre-weighed quantities to the dosage.
- Linked to each product/activity there can be a target, flight weight, speed change weight, tolerance weight, and a direct contact (up to 8 available contacts in the standard configuration, up to 48 optional expansions).
- Database of 500 formulas; each formula contains 20 products/activities.
- **Management of the databases from PC through Dinitools.**
- Management of the material levels through "under minimum level" and "over maximum level" contacts. NOTE: the programming of the activities and the recipes can be made manually or through software on PC (Dinitools).
- Dual dosage speed (approximate and fine), managed through output active in constant mode or with bleeding function, with programmable ON/OFF time.
- Dosage Start / Pause from keyboard or through activation of the inputs.
- Check of the tare presence at dosage start; the tare values are programmable for each recipe.
- Automatic printing of the dosage data.
- Automatic recalculation of the formula targets, by entering the total weight to be dosed.
- Storage and printing of the consumptions: consumption of each formula, activity consumption, dosed general total. Printouts quickly recalable from keyboard.
- Automatic correction of the flight weight, with

DESCRIPTION OF THE ACTIVITIES

- **Dosage in automatic loading:**
This activity has the purpose to automatically dose a product; the instrument enables the fast dosage output and the product one: the dosage starts at the maximum speed; when the weight reaches the TARGET TO BE DOSED - SLOW DOSAGE WEIGHT

- MATERIAL WEIGHT IN FLIGHT threshold, the approximate dosage relay disables and the dosage continues in fine mode until the TARGET TO BE DOSED - MATERIAL WEIGHT IN FLIGHT threshold is reached.

The instrument waits, in the configured time, for the fall of material in flight, executes the tolerance check and stores the data of the executed dosage.

In the end, the data of the executed dosage are automatically transmitted through the serial line for the printing or the storage on PC/PLC.

- **Dosage in manual loading:**

This activity has the purpose of manually dosing a product; the instrument enables the fast dosage output and the product one: the dosage starts at the maximum speed; when the weight reaches the TARGET TO BE DOSED - SLOW WEIGHT DOSAGE threshold, the approximate dosage relay disables and the dosage continues in fine mode until the TARGET TO BE DOSED - MATERIAL WEIGHT IN FLIGHT threshold is reached.

The instrument waits, in the configured time, for the fall of material in flight, executes the tolerance check and stores the data of the executed dosage.

In the end, the data of the executed dosage are automatically transmitted through the serial line for the printing or the storage on PC/PLC.

If the optional control light has been connected, the operator can be guided by the three lights in the following way:

- RED LIGHT + YELLOW LIGHT + GREEN LIGHT: dose in approximate mode

- RED LIGHT + GREEN LIGHT: dose in fine mode

- GREEN LIGHT: the weight goes back within the lower tolerance

- NO LIGHT: the dosed weight goes within the upper tolerance limit

- RED LIGHT: abundant dosage (out of upper tolerance).

- **Total Unloading:**

This activity has the purpose of completely unloading the scale; the instrument enables the approximate dosage output and the product output and will be disabled when the weight goes below the END UNLOADING threshold.

- **Partial Unloading:**

This activity has the purpose of unloading a precise quantity of material; the instrument enables the fast dosage output and the product one: the dosage starts at the maximum speed; when the weight reaches the TARGET TO BE DOSED - SLOW WEIGHT DOSAGE threshold, the approximate dosage relay disables and the dosage continues in fine mode until the TARGET is reached.

The instrument executes the tolerance check and stores the data of the executed dosage.

In the end, the data of the executed dosage are automatically transmitted through the serial line for the printing or the storage on PC/PLC.

- **Fractioned Unloading:**

This activity has the purpose of executing a total unloading, fractioning the material in equal weight quantities, programmable (example: unload 2000kg in 20 dosages of 100kg). Each single unloading is managed as a partial unloading activity.

- **Timer:**

This activity has the function of enabling, for the programmed time, a relay, which can be connected to a stirrer, a mixer, a burner, or, generally, to a device which should be enabled for a preestablished time and disable itself automatically.

- **Pause:**

allows to interrupt the dosage, in the case that the user must execute an operation; the dosage restarts by supplying a start impulse.

- **Manual weight:**

allows to sum to the dosage a preweighed quantity of material, counting it in the consumptions, without having to dose it (for example, a bag of dust of 20kg, a tank of additives of 3kg...).

programmable incidence degree.

- Programmable number of repetitions of the dosage cycle; enabling of the infinite dosage.
- Tolerance test on the dosed weight, with guided correction through simple messages on the display.
- Analogue output (optional) proportional to the weight or to the dosage speed.
- Control of the maximum dosage time and alarm management.
- Management of the dosage on various scales (up to 4 independent), with automatic scale change during the dosage.
- Completely programmable printouts, for compatibility with any ASCII printer manageable through the serial port; printing of the dosage data, the recipe, consumption and totals' data.

FUNCTIONING of the MULTICOMPONENT DOSAGE

- When the programming of the databases is finished, one selects the desired recipe.
- By supplying the dosage start to the system, the following takes place:
 - the verification of the correct tare presence and the weight stability
 - the automatic tare of all the connected platforms
 - the selection of the scale on which to dose
- The instrument executes the first activity of the recipe.
- Once the first activity is finished, the instrument:
 - selects the scale on which to dose
 - executes the automatic tare
 - executes the following activity.
- These operations are repeated for all the activities which compose the recipe.
- At the end of the last activity, the instrument activates the end cycle contact and waits to receive the start of the new dosage, or, in case of various repetitions of the dosage cycle, restarts automatically with the following cycle.

TO VIEW ALL THE TECHNICAL FEATURES, SEE THE [3590XT](#) PRODUCT DATA SHEET