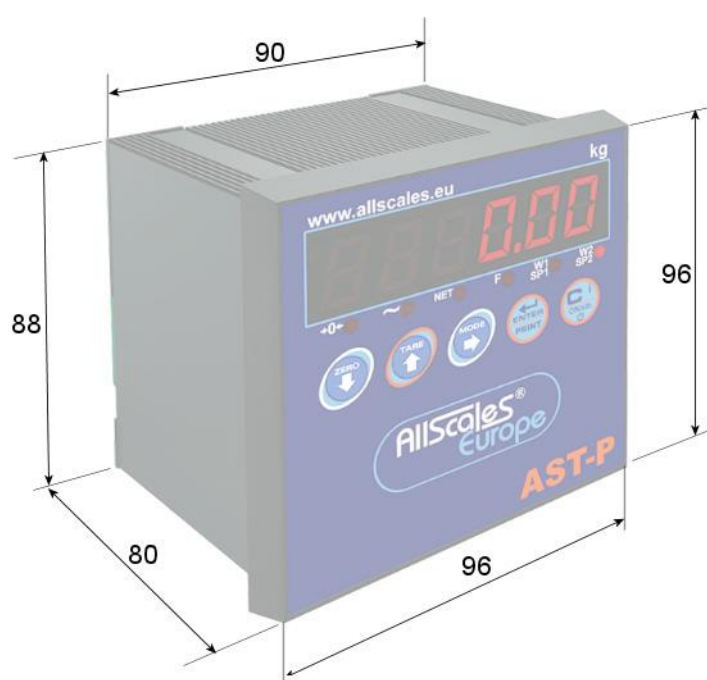


Weight transmitter / indicator

model AST-PD



General data

- **CE verifiable** (application for legal trade)
- versatile transmitter 96x96x80 mm (lxhxd); perforation 90x88 mm (lxh) for panel mounting
- 4 dependent and 4 independent channels for direct reading and diagnosis of any connected load cell
- red LED display with 6 13-mm digits and 6 LEDs for showing active functions
- up to displayable 800.000d with internal resolution up to 3.000.000 points
- A/D 24-bit sigma-delta conversion
- connectable with up to 16 analog load cells with 350 Ω input resistance
- master/slave management (up to 4 slaves / 1 master).
- extensive functions like automatic- and presettable tare, total weight, recipe,
- net/gross, piece counting, hold, peak etc.
- RS-232/C bidirectional port for connection to external units
- RS-485 bidirectional port for network connection
- 2 photomofet outputs; 2 opto-isolated photo coupler inputs
- 16-bit analog output 4-20 mA / 0-5Vdc / 0-10Vdc (model AST-P-AN)
- power: from 12 Vdc to 24 Vdc

Options

- ticketprinter for panel mounting
- easy weigh software for Windows
- expansion module with indicator-LEDs for checkweighing (under/over/ok)
- USB HID interface
- real-time clock module (date/time)
- alibi memory incl. date/time for max. 120.000 weighings



Weight transmitter / indicator

model AST-PD

SINGLE PRODUCT DOSAGE (LOAD) (manual and automatic control).

Configuration which allows to manage a dosage system in loading of a single product, useful for dividing the quantity of materials of equal weight, for filling hoppers, extracting precise quantities from a silo, guiding the operator in the manual dosages.

Method LOAD: increase of weight of the container to be filled, until the set target weight is reached

Main features

- basic functions (clearing, tare, and weight printing)
- selectable dosage mode, either automatic or manually guided
- database of 40 formulas with target, speed change threshold, flight, +/- tolerance and programmable minimum tare and maximum tare values for each formula
- quick switch of the dosage target, through a dedicated key
- dual dosage speed (approximate and fine), managed through active output in constant mode or with bleeding function, with programmable ON/OFF time
- start / pause dosage from keyboard or through enabling of the inputs
- automatic printing of the dosage data
- storage and printing of the consumptions: consumption of each formula, consumption of the formulas, dosed general total; printouts may be quickly recalled from the keyboard
- automatic correction of the flight weight, with degree of programmable incidence
- programmable number of repetitions of the dosage cycle or infinite repetition of the dosage cycle
- checking of the tare presence at the dosage start; the tare values are programmable for each formula
- tolerance test on the dosed weight, with guided correction through simple messages to the display
- analogue output (optional), proportional to the weight or to the dosage speed
- check of the maximum dosage time
- alarm management

Function automatic dosage with load method:

Once the dosage start command is received, the following takes place:

1. the presence of the tare and weight stability is verified and the execution of the automatic tare and the enabling of the automation through its dedicated outputs: the dosages start at maximum speed
2. once the speed change threshold is reached, the dosage is slowed down through the dedicated output.
3. when the target is reached, the configured flight weight is missing; the slow dosage output is disabled and then it waits (for the configured time) for the dropping of the material
4. tolerance test on the dosed weight
5. storage of the formula consumptions and increment of the dosed general total
6. complete unloading request, through enabling of dedicated output
7. fine dosage or automatic restart for following cycle

LOAD: by weighing of the container to be filled; the weight increases until the set target weight is reached

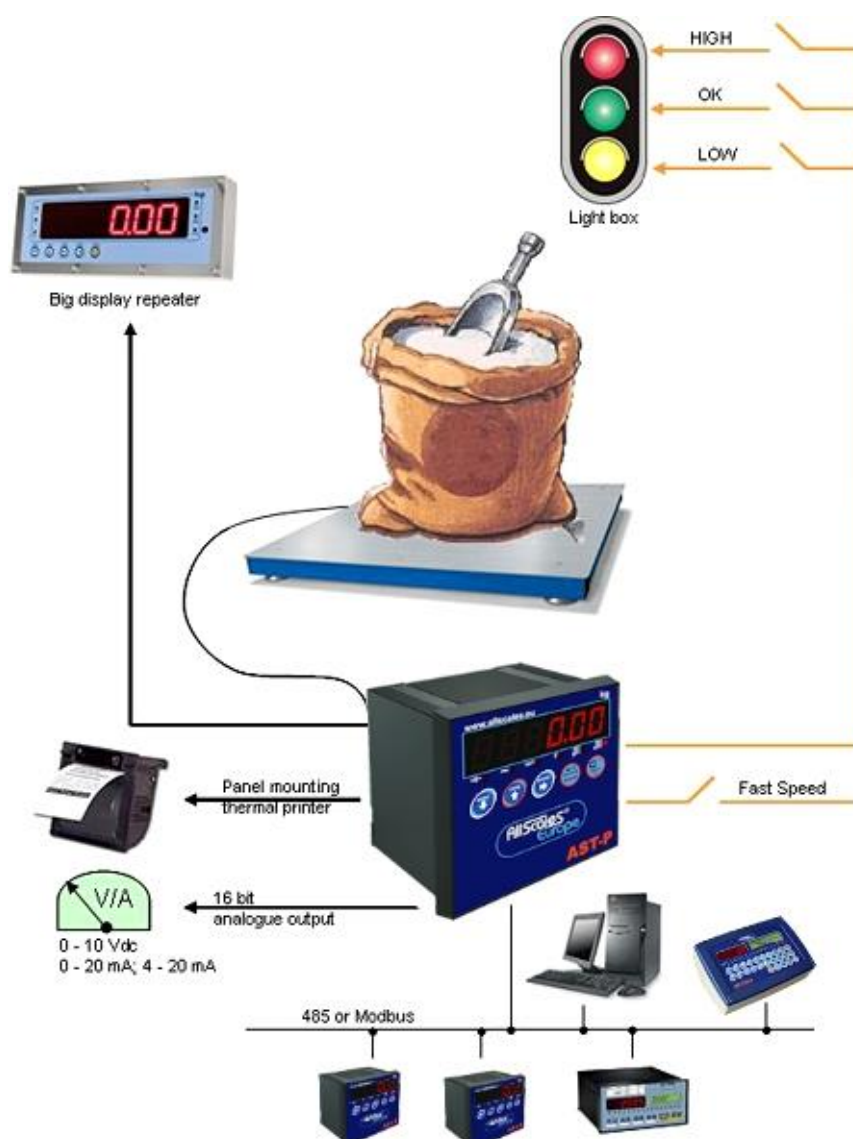
UNLOAD: by weighing of the silo from which the product is to be withdrawn; the weight decreases until the set target weight is reached



Weight transmitter / indicator

model AST-PD

Schedule manual dosage, method load:



Weight transmitter / indicator

model AST-PD

SINGLE PRODUCT DOSAGE (UNLOAD)

Configuration which allows to manage a dosage system in unloading of a single product, useful for dividing the quantity of materials of equal weight or extract precise quantities from the silo, with management of the reloading.

Method UNLOAD: the weight decreases until the set target weight is reached.

Main features

- basic functions (clearing, tare, and weight printing);
- automatic dosage in unloading;
- automatic management of the reloading of the silo using a dedicated contact, with programmable filling start and end thresholds;
- database of 40 different formulas; target, speed change threshold, flight, +- tolerance, programmable for each formula;
- quick switch of the dosage target through a dedicated key.
- dual dosage speed (approximate and fine), managed through output active in constant mode or with bleeding function, with programmable on/off time.
- start / pause dosage from keyboard or through enabling of the inputs.
- automatic printing of the dosage data.
- storage and printing of the consumptions: consumption of each formula, formula consumption, general total dosed. printouts may be quickly recalled from the keyboard.
- automatic correction of the flight weight, with programmable incidence degree.
- number of programmable dosage cycle repetitions; enabling of the infinite dosage.
- tolerance test on the dosed weight, with guided correction through simple messages to the display.
- analogue output (optional) proportional to the weight or to the dosage speed.
- check of the maximum dosage time and alarm management

Function automatic dosage with the unload method:

once the dosage start command is received, the instrument:

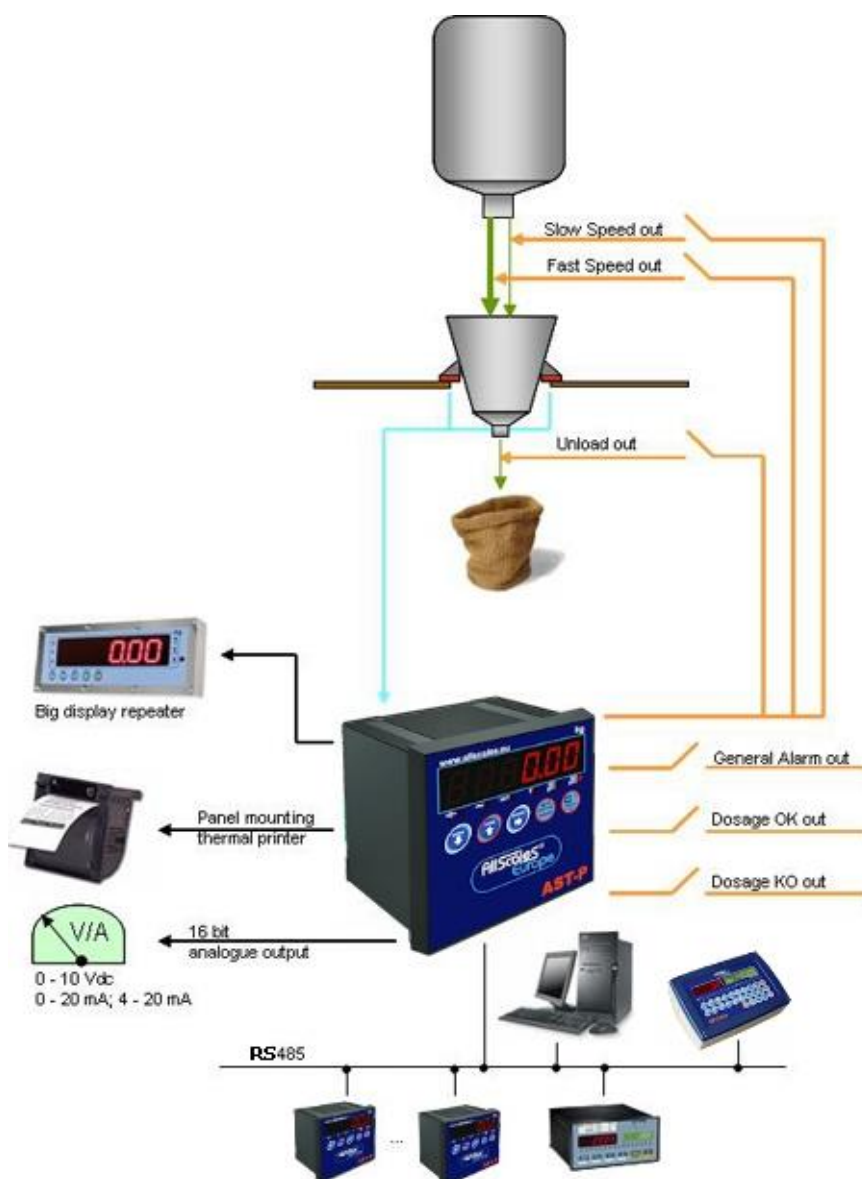
1. verifies that the quantity of material is sufficient to execute the programmed dosage cycle and that the weight is stable
2. executes the automatic tare and the enabling of the automation through its dedicated outputs: the dosages start at maximum speed
3. once the speed switch threshold is reached, the dosage slows down through its dedicated output
4. when the TARGET is reached, the configured flight weight is missing; it disables the dosage output, and then it waits (for the configured time) for dropping the material
5. tolerance test on the dosed weight
6. storage of the formula consumptions and increment of the dosed general total
7. waits for the start of the new dosage or automatically restarts with the following cycle.



Weight transmitter / indicator

model AST-PD

Schedule automatic dosage, method unload:



Weight transmitter / indicator

model AST-PD

MULTI PRODUCT DOSAGE

Configuration which allows the dosage of various products, in loading or unloading, the mixing and the formulation, with the possibility of managing mixers, burners or vibrators using dedicated contacts.

Main features

- clearing, tare and weight printing functions
- database of 16 selectable products/phases which may be:
 - automatic dosage
 - manual dosage, with possibility of managing a control light
 - complete or partial unloading
 - fractioned unloading, for dividing all the dosed material in equal quantities
 - timer, for enabling mixers, burners, or stirrers for a preestablished time period
 - pause, for allowing the manual operations of the operator
 - manual weight, for adding pre-weighed quantities to the dosage
- one may assign to each product/phase a direct contact (up to 4 products/phases) or a binary combination of contacts (up to 16 products/phases)
- database of 15 formulas; each formula can contain 8 products/phases
- dual dosage speed (approximate and fine), managed through an output active either in constant mode or in bleeding function, with a programmable on/off time
- start / pause dosage from keyboard or through enabling of external inputs
- checking the presence of the tare at the dosage start; the tare values are programmable for each formula
- automatic printing of the dosage data
- automatic recalculation of the formula targets, by entering the the total weight to be dosed
- storage and printing of the consumptions: consumption of each formula, consumption of the formulas, general total dosed; printouts may be quickly recalled from the keyboard
- automatic correction of the flight weight, with degree of programmable incidence
- repetitions of the programmable dosage cycles; infinite cycle function
- tolerance test on the dosed weight, with guided correction through simple messages to the display
- analogue output (optional) proportional to the weight or to the dosage speed
- check of the maximum dosage time



Weight transmitter / indicator

model AST-PD

Functioning of the multicomponent dosage:

Once the dosage start command has been received, the following takes place:

1. the presence of the tare and weight stability is verified
2. the execution of the automatic tare and the enabling of the automation through the dedicated outputs
3. the instrument executes the first phase of the formula
4. once the first phase is finished, the instrument automatically passes to the following phase, executing the automatic tare
5. at the end of the last configured phase, the instrument enables the fine cycle contact and waits for the start of the new dosage, or automatically restarts with the following cycle

Schedule automatic multi-product dosage:

