

eNod4 weighing controllers

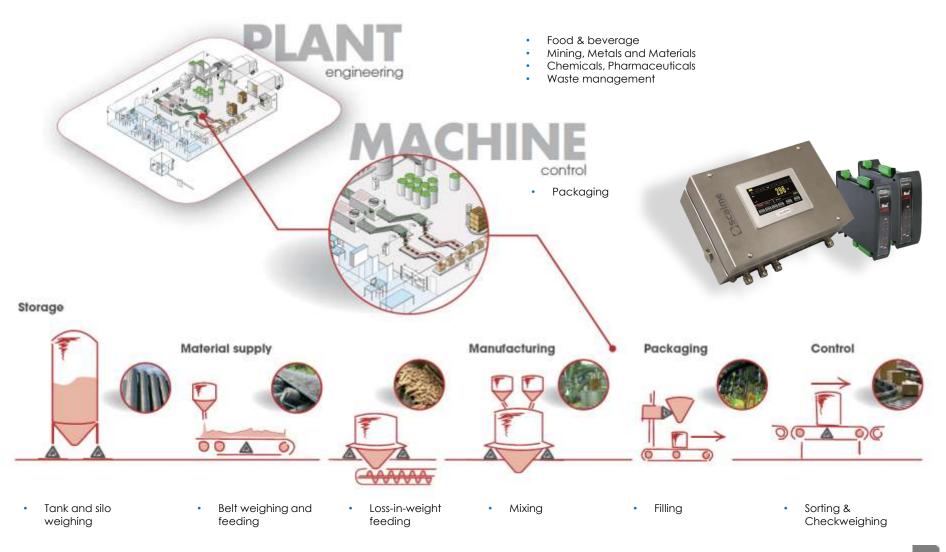
For automated processes





Introduction

A weighing solution for the entire supply chain





Introduction

A communicating and scalable solution easily integrated into automated systems



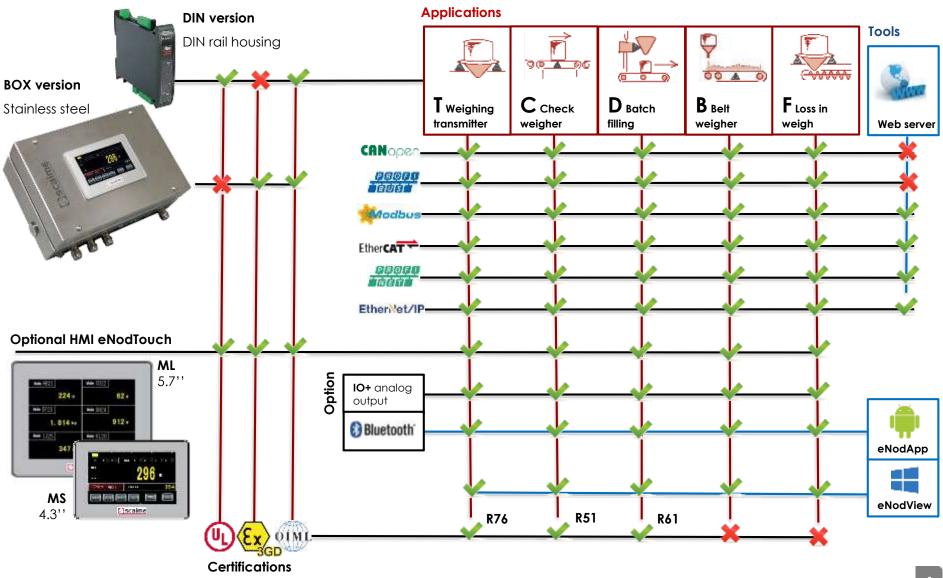


Library PLCLib eNod4

F: Continuous Feeding



eNod4 at a glance

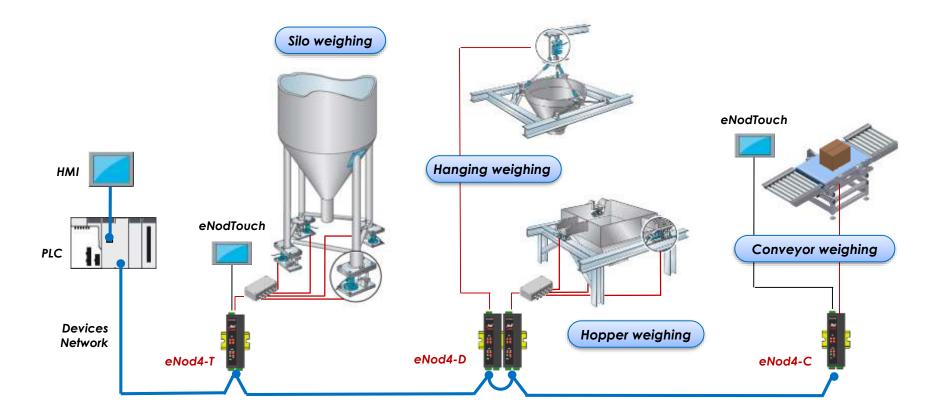




Architecture

Typical weighing architecture with eNod4

- Several eNod4 with different application firmware on the same industrial network
- Optional use of eNodTouch HMI for local display or control

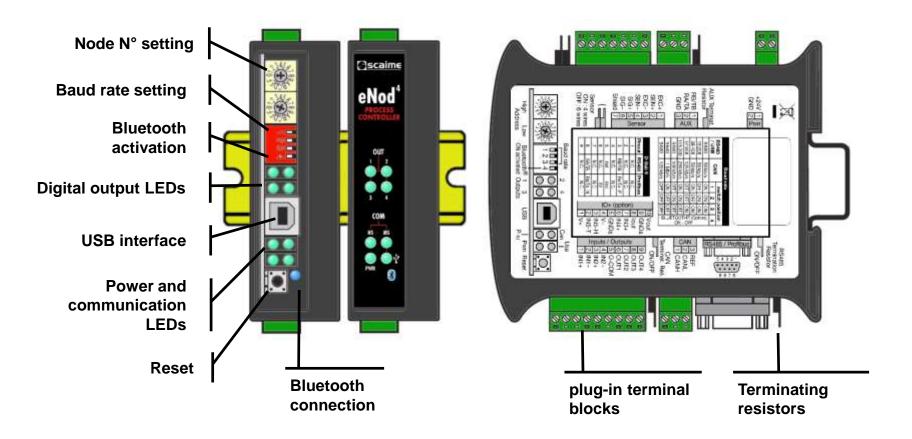




Presentation

DIN version - Vertical DIN rail housing

Vertical and compact size housing allowing quick and easy installation on DIN rail





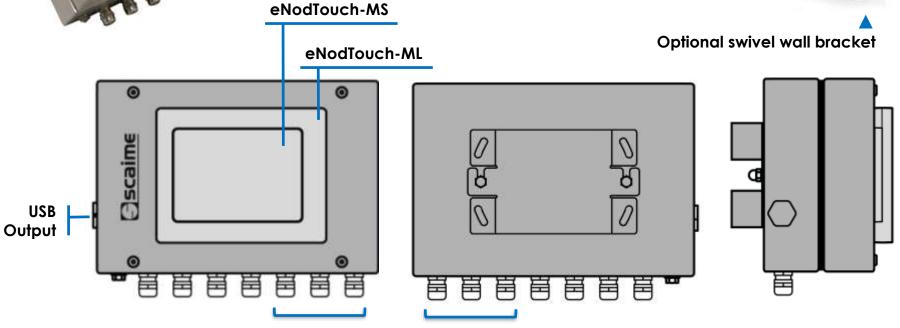
Presentation

BOX version – IP65 stainless steel housing, without HMI or with HMI eNodTouch-MS/ML

Robust design for use in industrial environment

- Removable wall mount
- 110-220VAC Power supply Option
- JB4 connection board option for 4 Load cells





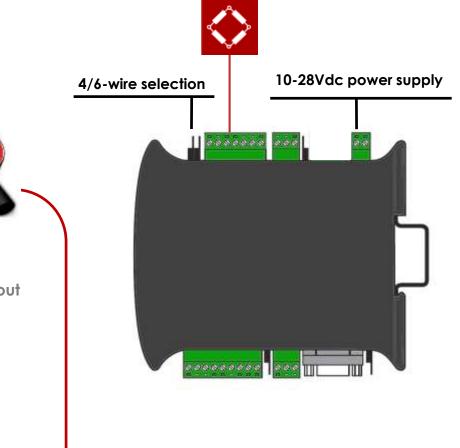
3 additional cable glands with JB4 option



Load cells input

Load cells interface

- Supplies up to 8 strain gage load cells (350 Ω)
- Manage 4 or 6-wire load cell technology

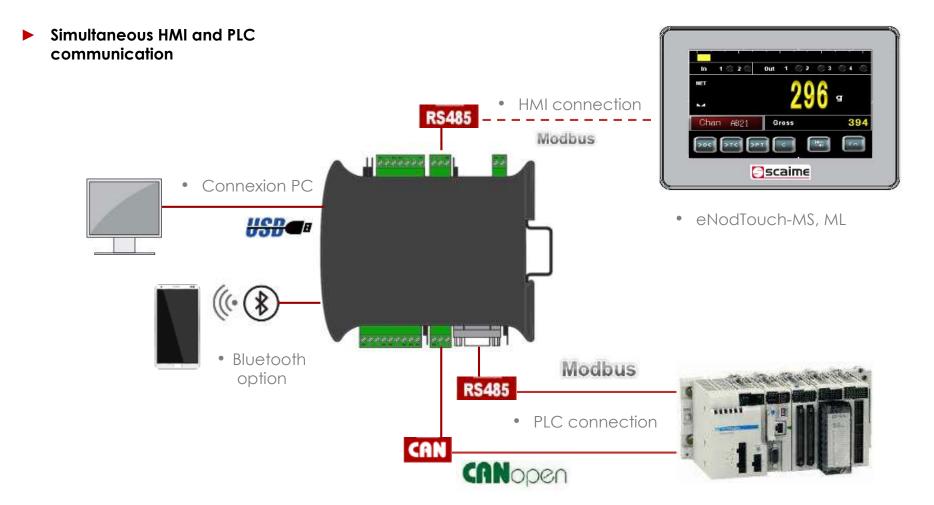


- Factory precalibration
 - Calibrated at 500 000d for 2mV/V
 - Allows the exchange of a defective eNod4 without the need to recalibrate.
- Weighing system diagnosis
- Break detection of sensor cable
- Device simulating a load application by shunt resistor.
- Can be triggered at any time by the PLC.



Connectivity

Standard eNod4 connectivity

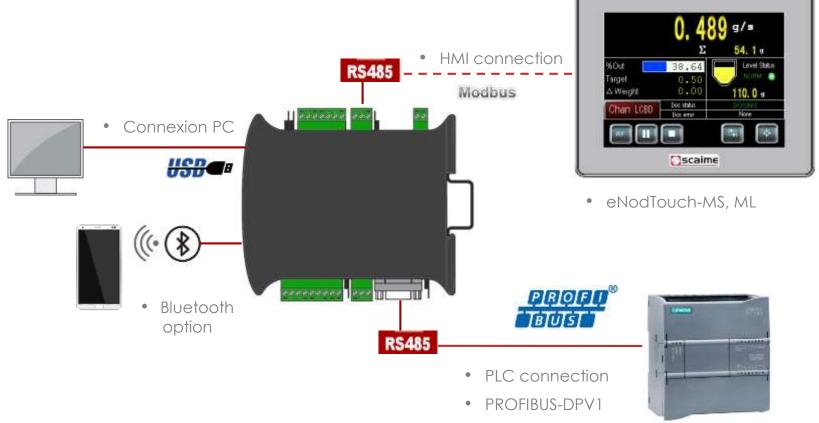




Connectivity

eNod4 PROFIBUS connectivity

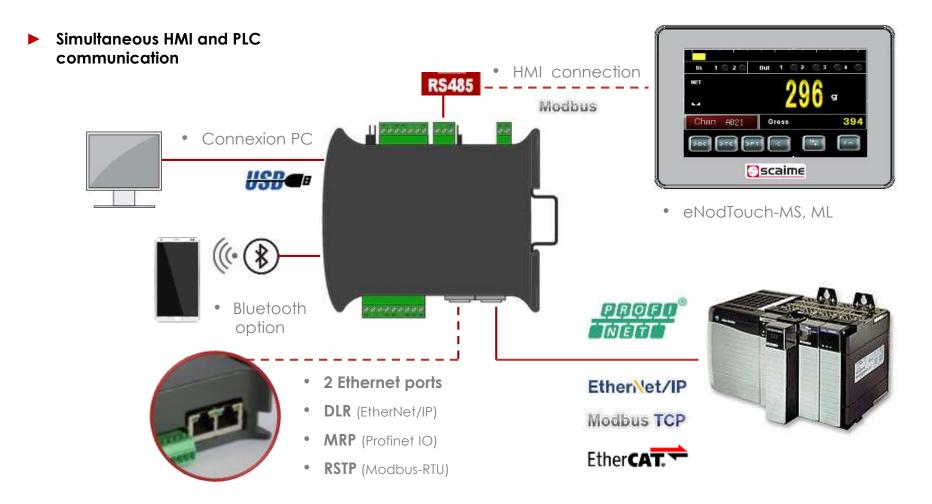
Simultaneous HMI and PLC communication





Connectivity

eNod4 ETHERNET connectivity

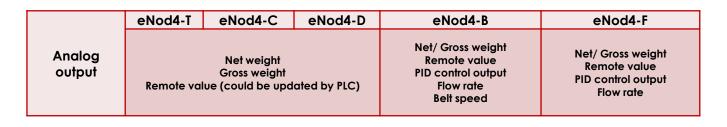


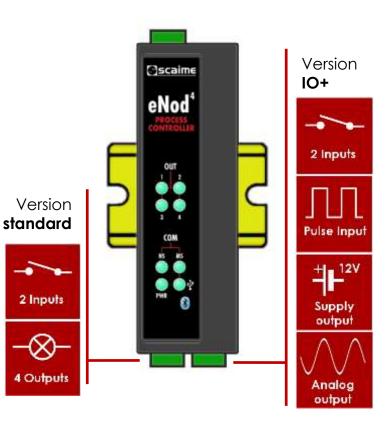
Digital Inputs/Outputs

To control the embedded application

Included as a standard

- **2 configurable opto-isolated inputs:** External triggering of weighing commands (Tare, Zero...) or process commands.
- **4 configurable outputs on static relay:** Process control, alarms, set points control or remote control
- With IO+ versions
 - 2 additional digital inputs
 - Pulse opto-isolated input for belt speed sensor, TTL (5V) or HTL (24V) signal, frequency up to 4kHz
 - 12VDC power supply output for speed sensor
 - Configurable analog output 0-10V or 4-20mA, 16 bit resolution









eNodTouch-ML

Optional HMI

eNodTouch-MS or ML, Multi-channel color touchscreen for eNod4

- Compatible with all eNod4 versions : T, C, D, B and F
- **Runs in parallel with PLC communication**
 - Color touch screen 4.3-inch (version MS) or 5.7-inch (version ML)
 - RS485 connection to eNod4, Modbus-RTU protocol.
 - Allows the use of eNod4 without PLC



eNodTouch will display the weighing data, send commands and configure eNod4.



Optional HMI

Functionalities

Display

- Weight and results display
- Weighing functions keys
- Application control

Calibration

- Setting the calibration parameters
- Physical and Theoretical Calibration

Configuration

- I/O parameters
- Digital filters parameters
- Application parameters



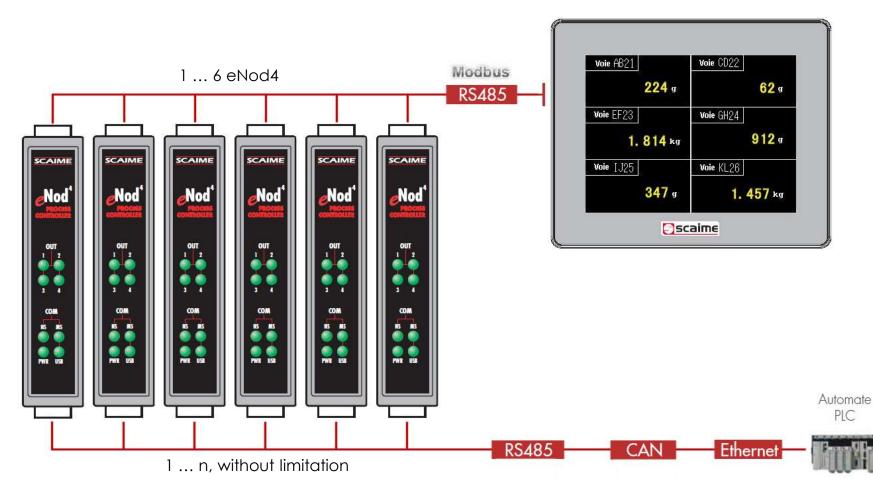




Optional HMI

eNodTouch in multichannel use

eNodTouch-MS or ML can configure and control from 1 to 6 eNod4



eNodView2 software

eNodView2 general features

Display

• Real time and graphical display of measurement and digital I/O



Analysis

- Acquisition and measurement display
- Frequency analysis (FFT)
- Simulation and display of filters effect

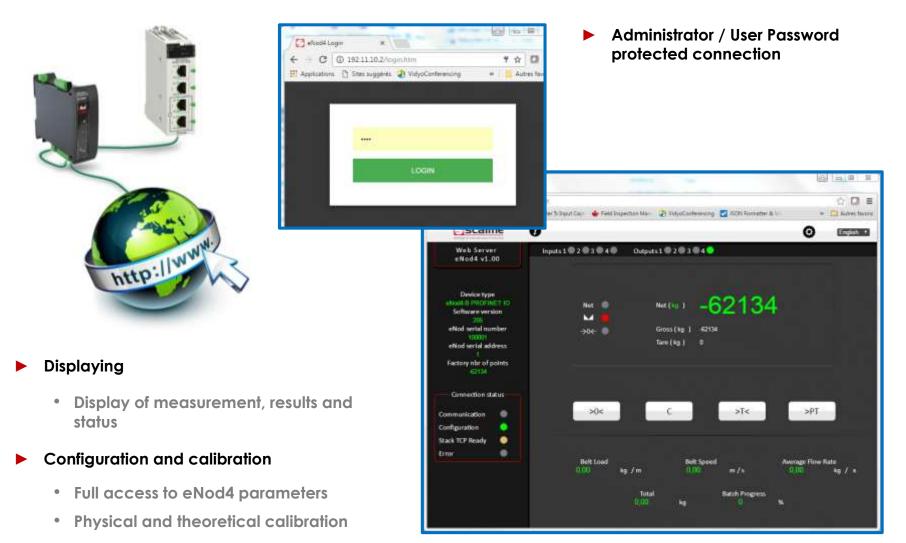
- Configuration and calibration
 - Full access to eNod4 parameters
 - Physical or theoretical calibration





Web server

Available on all eNod4 Ethernet versions





eNodApp application

eNod4 wireless control from Adroid mobile

eNod4 connection in Bluetooth

• Optional Bluetooth 4.2 board, activated by switch



Display and control

- Secure access by password
- Display of data and execution of weighing functions (Zero, Tare)
- Control of eNod4 application

Configuration and calibration

- Full configuration of eNod4
- Weighing system calibration





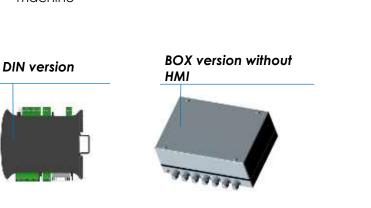
Certification in Legal for trade use

Certification according to OIML R76, R51 et R61



Part certificate "Analog data processing unit"

- eNod4-T, according to OIML R76 for use in NAWI
- eNod4-C, according to OIML R51 for use in AWI catchweigher
- eNod4-D, according to OIML R61 for use in AWI filling machine



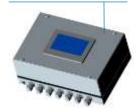
eNod4-T/C/D, DIN/BOX versions

- Part certificate "Indicator" eNod4 WT
- eNod4-T & eNodTouch, for use in NAWI
- eNod4-C & eNodTouch, for use in AWI catchweigher
- eNod4-D & eNodTouch, for use in AWI filling machine

DIN version and eNodTouch



BOX version with HMI

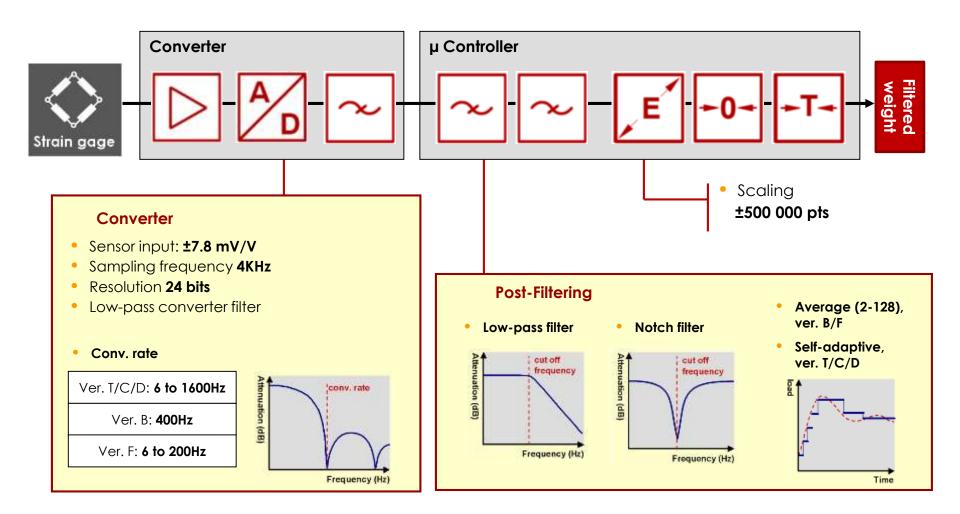


eNod4 WT = eNod4 DIN/BOX + eNodTouch



Signal processing

Conversion and filtering of load cell signal



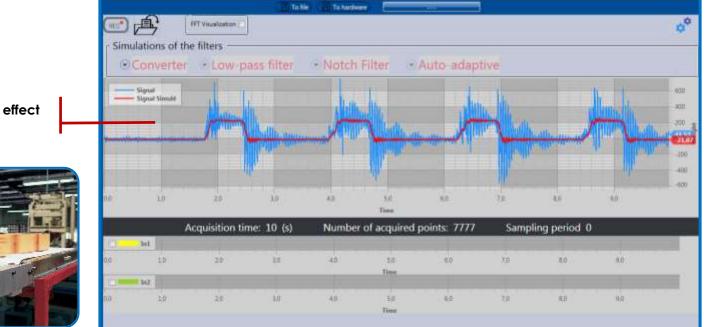


Signal processing

Example of digital filtering with eNod4

On a dynamic checkweigher

- To attenuate disturbances due to vibrations, eNod4 uses several levels of digital filters.
- Digital filters adjustment can be realized with the simulation module of eNodView2 software.



Simulation of filters effect



Weighing applications





3 software versions dedicated to static or dynamic weighing applications

dedicated to

applications





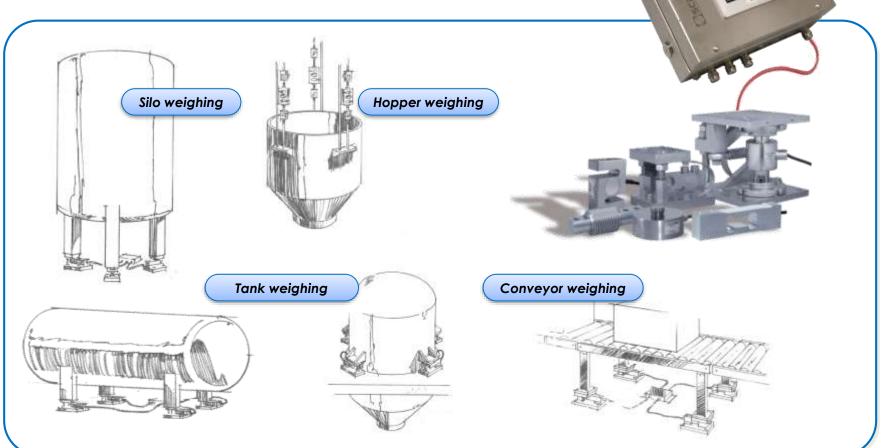
eNod4-T, weighing transmitter



eNod4-T weighing transmitter

Weighing solution from 1kg to 1000t...

- eNod4 in combination with our range of load cells and mounting hardware
- Idealy suitable for conveyors, hoppers, tanks or silos weighing





eNod4-T weighing transmitter

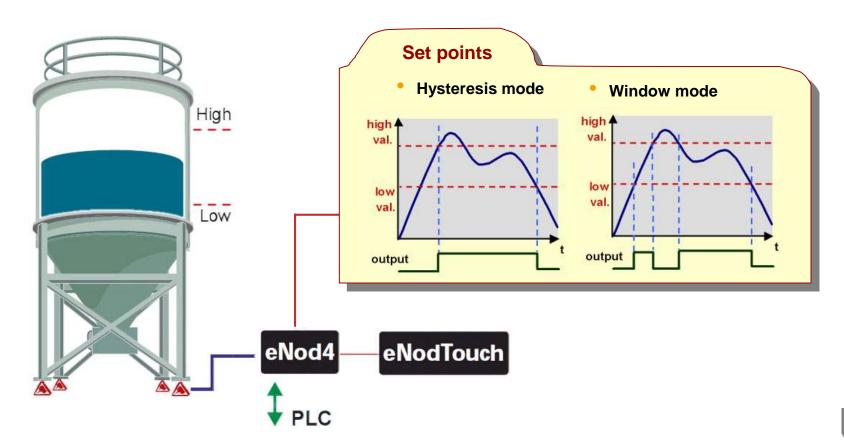
<u>scaime</u>

eNod4 applications

High speed and high accuracy measurement transmission

Functionalities

- Physical or theoretical weighing calibration
- Measurement scaling, decimal point and unit management
- Up to 4 set points management

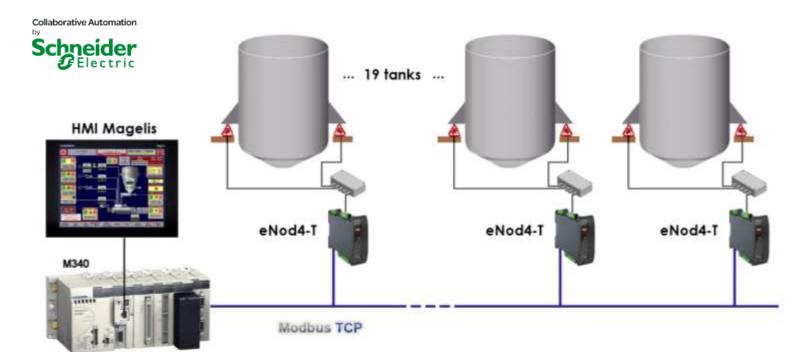


eNod4-T Weighing transmitter

Application case

- Tanks level monitoring
 - Weighing all the tanks of the production unit
 - Realization in partnership with Schneider Electric
 - effective Ethernet architecture for easy data access between the automated system and the ERP system.

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syngenta



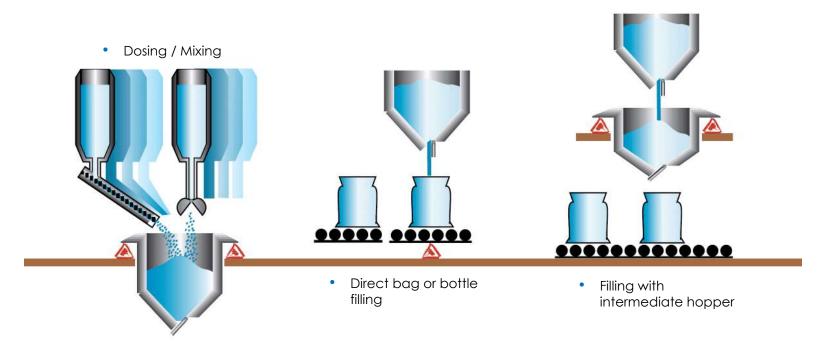






Solution for all batch dosing of filling processes

- Fully management of a single product dosing cycle, by filling or by unloading
- Allows you to design complex multi-product dosing systems, without limit of products number.
- Suitable for high speed filling in noisy environments.
- Can be used both connected to a PLC or in autonomous with dedicated HMI.
- Software for configuration, Filters simulation and dosing cycle monitoring



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eNod4 weighing controllers For automated processes

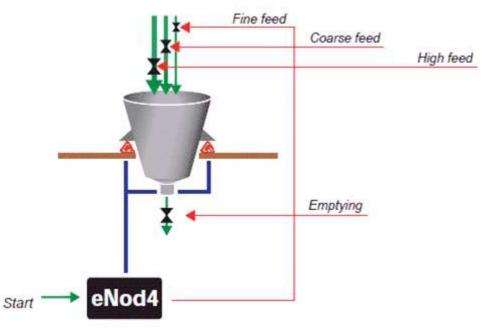
eNod4-D Dosing and filling

Filling processes management

Filling Functionalities

- Takes in charge a full mono-product filling cycle
- Control of 1, 2 or 3 filling feeds, configurable feed sequences (CF, CF-FF, HF-CF-FF, FF-CF-FF)
- « Dynamic» functioning mode for accurate dosing without weight stability (Rotating dosing machines)
- Emptying management (or ejection), Manual or automatic
- Filling tolerance control
- Automatic or fixed in-flight correction
- Automatic or manual start
- Tare presence control

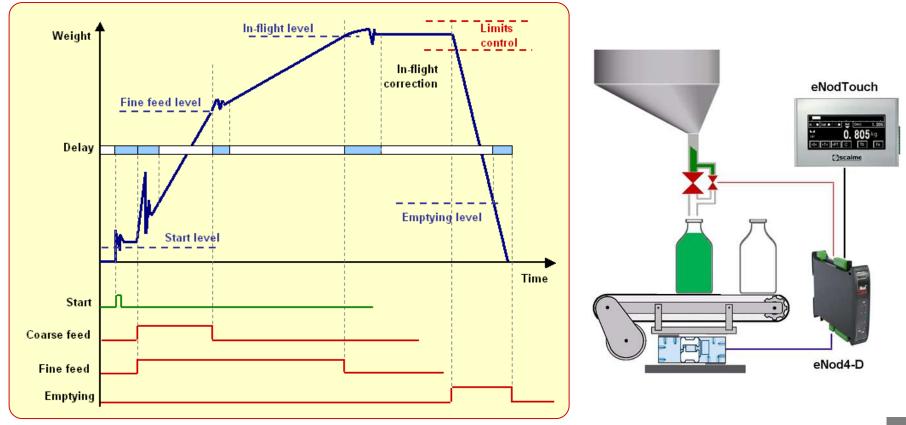






Filling processes management

- Example of 2-feed filling cycle
 - Configurable weigh level as stating cycle condition
 - Adjustable measurement neutralization time at each step of the dosing cycle



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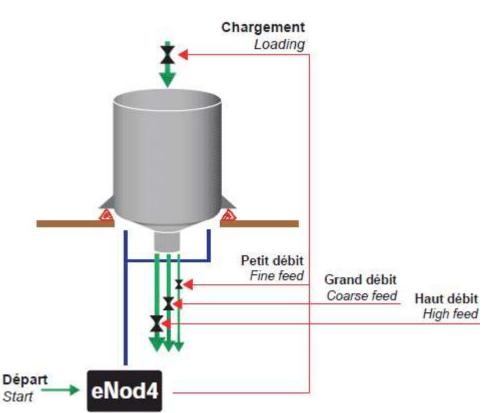


Dosing by unloading management

Unloading Functionalities

- Control of 1, 2 or 3 filling feeds
- Configurable feed sequences (CF, CF-FF, HF-CF-FF, FF-CF-FF)
- Reloading management, at the end or beginning of the cycle
- Dosing tolerance control
- Automatic or fixed in-flight correction







eNodView2 functionalities with eNod4-D

Screenshot of eNodView2 software

Setting of dosing parameters

т

Real time supervision of dosing cycle

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Communication	Dosing machine Filling Mode		Graphic View			
 Setting General 						
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Fitning Application Calibration Measure	Tolerance	10	Quality of results: 0			
	Tolerance +	10	Galancy of results: 0			
	Min empty weight:	100				
	Max empty weight:	500	Out of tolerance + Intel			
	Outlet management		Out of tolerance +			
	Auto corrected inflight:	No No	Ongoing cycle			
	indight value:					
	250		Average results: -1		5	
	Use correction table :	-> No	Cycle time (ms): 46404			
	Triple correction (100% Capped)	-> No	Deviation of dosing: 0			
	Cycle timeout [expressed in ms]		Number of cycles: 0			
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	Starting HF delay: 🕥	50	Emptying			
	Starting CF delay:	50				Desing instruction
	Starting FF delay: 🌀	50	Cycle reset	IF threshold		
	Final stabilization time: 🔞	500		(the second		
	End of cycle delay: 🔇	100				
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	Dynamic dosing	No No				
	Automatic start	No				 A
scaime	Restart IF if out of tolerance	> No				



eNod4 weighing controllers

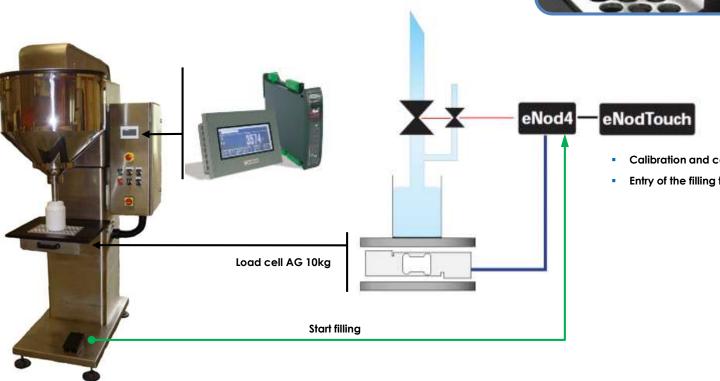
eNod4-D Dosing and filling

Application case

- Simple filling machine \blacktriangleright
 - Filling machine of spices pots ۲
 - The machine is controlled by eNod4 and eNodTouch, without PLC use.
 - fast, accurate and economical solution ۲

- Calibration and configuration
- Entry of the filling target



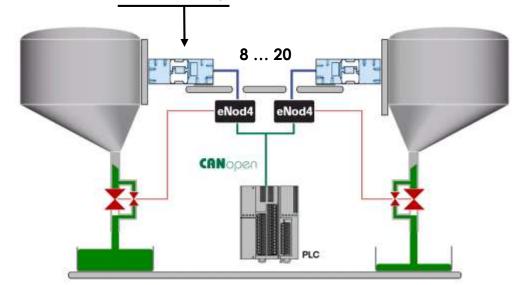




Application case

- Multi-head rotary filler
 - 8 to 20 heads rotary machine for sauce filling.
 - The PLC takes in charge the overall control of the machine.
 - The eNod4-D control the filling process for optimal accuracy and maximum production rate.









Load cell AK 12kg



eNod4 applicatio<u>ns</u> eNod4 weighing controllers

eNod4-D Dosing and filling

Application case

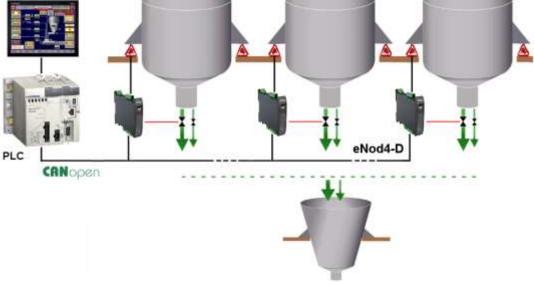
- Multi-product mixing by unloading
 - Mixing of 3 products for candy production line. ۲
 - The PLC handles recipes management and the sequencing of successive dosing ۲
 - With parameters coming from PLC, the enod4-D take in charge the dosing cycle of each product. ۲
 - With this architecture, elements perform the tasks for which they are most efficient. ۰

HMI

Collaborative Automation Schneider







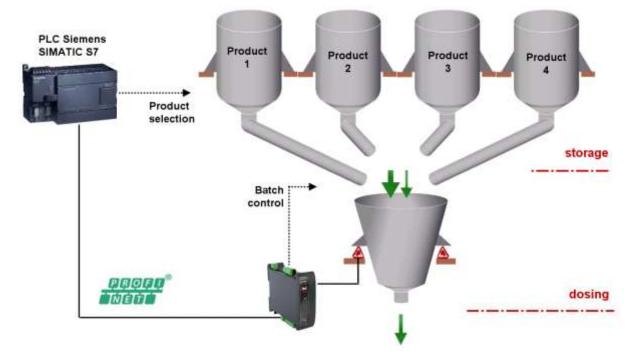




Application case

- Multi-product filling for mixing
 - Mixing of 4 products for plastic production line.
 - The PLC handles recipes management, the product selection for dosing and the sequencing of successive dosing.
 - With parameters coming from PLC, the **enod4-D take in charge the dosing cycle** of each product and the final emptying.









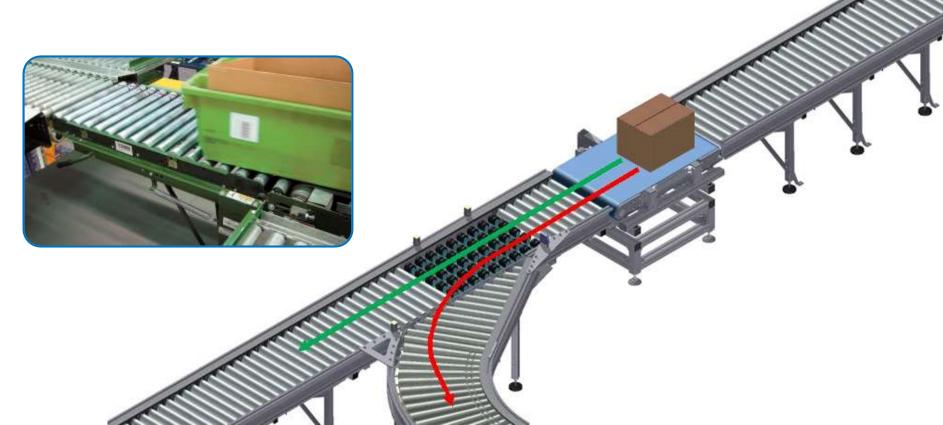






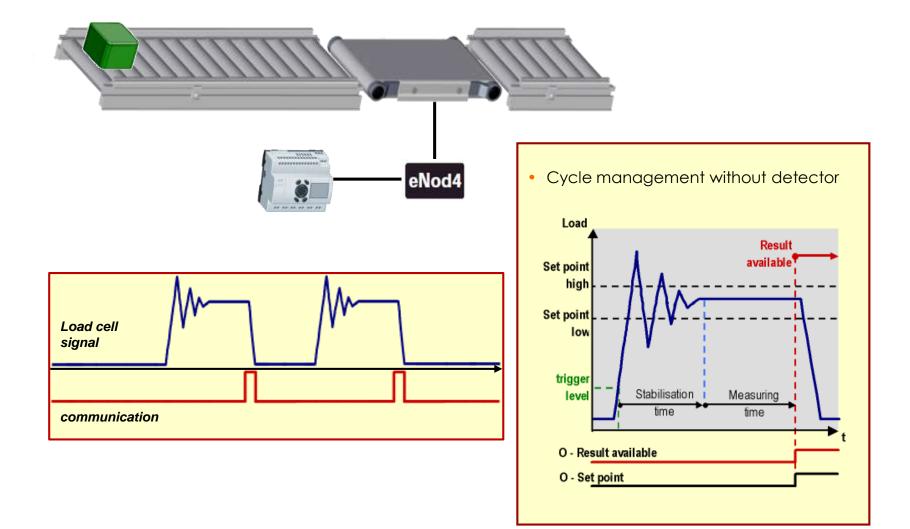
Checkweighing functionalities

- Takes in charge a full cycle of dynamic checkweighing
- Presence detection of an element to be checked by weight level or detector
- calculation of the weight to be checked and transmission to the PLC
- Ejection Management after checking of the calculated weight





Internal triggering par weight level



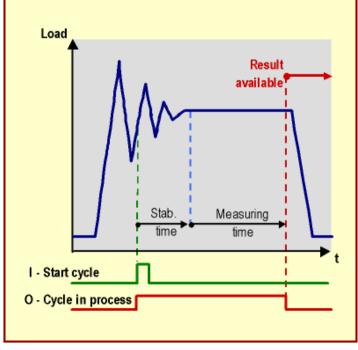
External triggering by 1 or 2 detectors

applications

Ejection management

- Target weight & tolerances (+ and -) management
- Ejection or routing management for out of tolerance or within tolerances items
- Delay and activation time of the ejection output
- Up to five items may be stored between the weighing location and the ejection location.

Cycle management with 1 detector

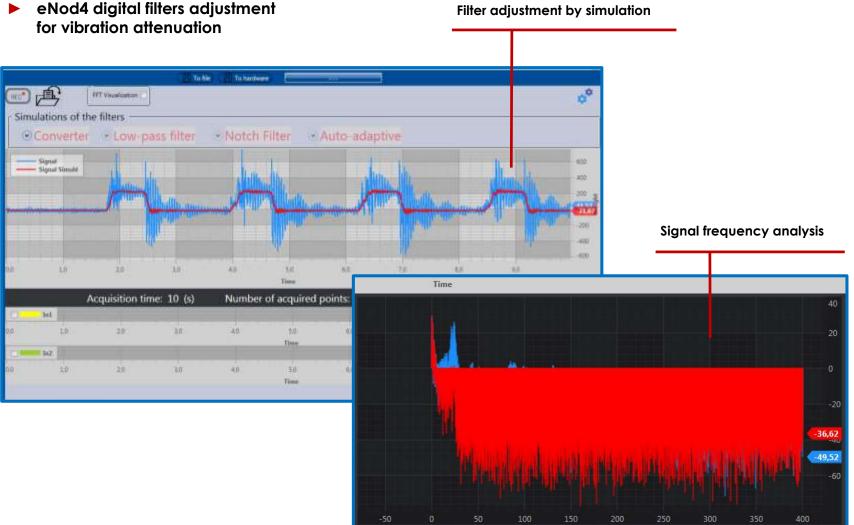






eNod4

eNodView2 functionalities with eNod4-C





eNod4 applications

Filter adjustment by simulation

eNod4 applications

eNodView2 functionalities with eNod4-C

time adjustment of dynamic weighing cycle

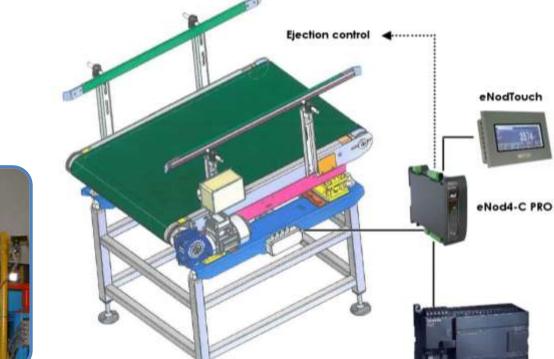
2 - CONTRACTOR - CON			Steel Distances				
Communication	Checkweigher application ——		Graphic view	Graphic View			
Setting General Inputs/Outputs Filtering	Conveyor settings Trigger level	10000	Net:	151919	kg		
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leasure	Measurement time	200		101010	~ 6		
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Application case

weight barrels control

- This system allows the control of barrels production at the end of line: • Incomplete containers are automatically ejected by eNod4-C.
- Checking rate of 120 containers / min with an accuracy of +/-5 g. ۰





eNod4 applications

GREIF



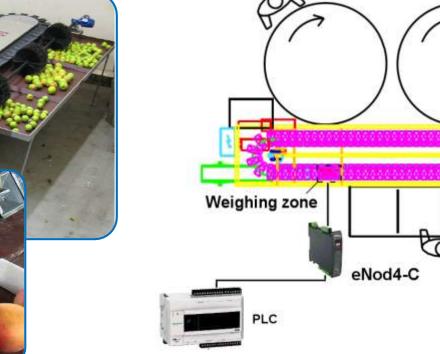
PLC Siemens

eNod4-C, Checkweighing and grading

Application case

- Fruits grading machine
 - eNod4-C takes in charge fruit weight calculation and transmission to the PLC
 - The PLC takes in charge fruit ejection according to its weight.
 - With this architecture, the machine reaches a rate of 12 fruits / s.













eNod4-B, Belt scale & belt weigh feeder



eNod4-B, Belt scale & belt weigh feeder

Load

eNod4

Load cell

Total pulses

eNodTouch

Material

Belt scale management

Gross weight

Net weight

Belt speed

Flow rate External value

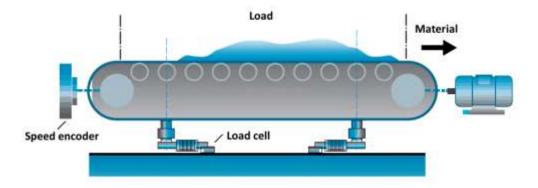
Weighing of belt section (long conveyor)

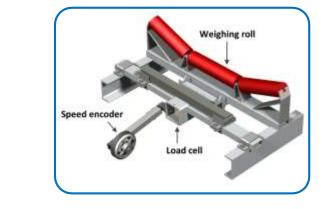
Speed encoder

Analog output













eNod4-B, Belt scale & belt weigh feeder

Totalizing on belt scale

- Configuration
 - Physical or theoretical weight calibration
 - Fixed or measured belt speed (speed encoder)
 - Flow rate calibration by correction of totalized weight
 - Configurable flow rate unit: g/s, g/h, kg/s, kg/h, t/h
 - Correction coefficient of belt inclination

Functionalities

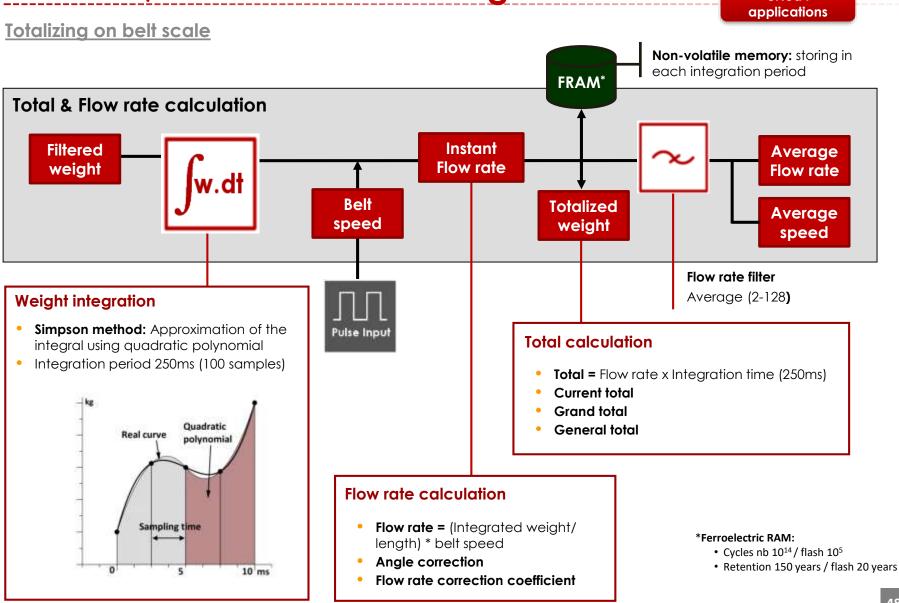
- Flow calculation and continuous weight totalizing, with 3 independent and stored levels of total.
- Dynamic zero of belt scale
- Belt speed calculation
- Weight integration per unit of length
- Pulse output for external Totalizer
- Configurable analog output
- Loading cycle management with target on total and inflight correction

Main alarms and controls

• Min / Max flow rate, Min/Max belt speed, Min/Max belt load, Band start warning







eNod4-B, Belt scale & belt weigh feeder

eNod4



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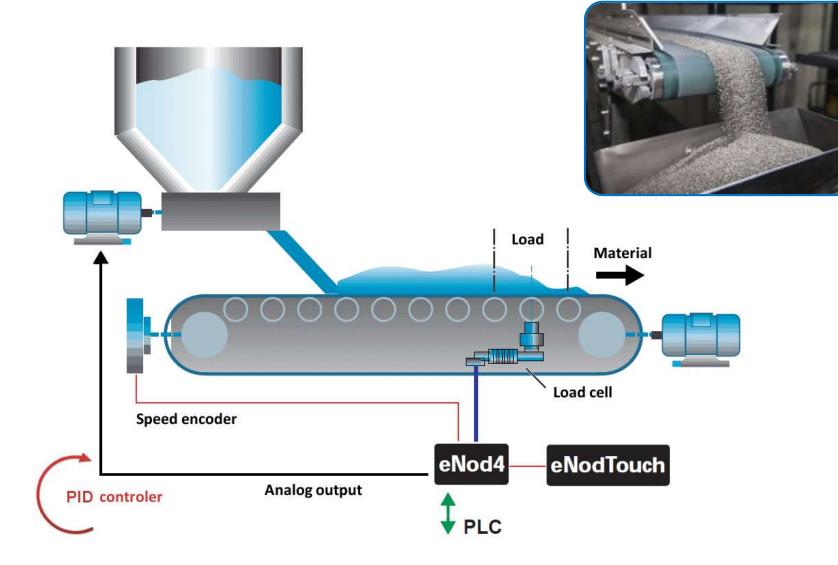
scaime



eNod4-B, Belt scale & belt weigh feeder

eNod4 applications

Flow rate control on belt weigh feeder





eNod4-B, Belt scale & belt weigh feeder

Flow rate control on belt weigh feeder

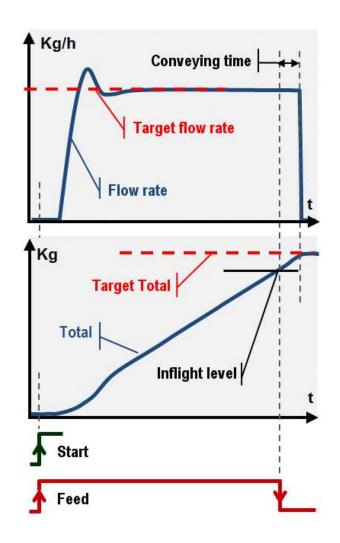
Configuration

- Management of Target flow rate and Target total
- **Control output setting** (Analog output): Calibration in flow rate, possibility of remote control by external value
- Adjustment of PID controller parameters : Manual or automatic self-adjustment

Functionalities

- Flow rate regulation by in-built PID controller with action on belt speed or material supply.
- Limits management of control output
- Loading cycle management with target on total and inflight correction

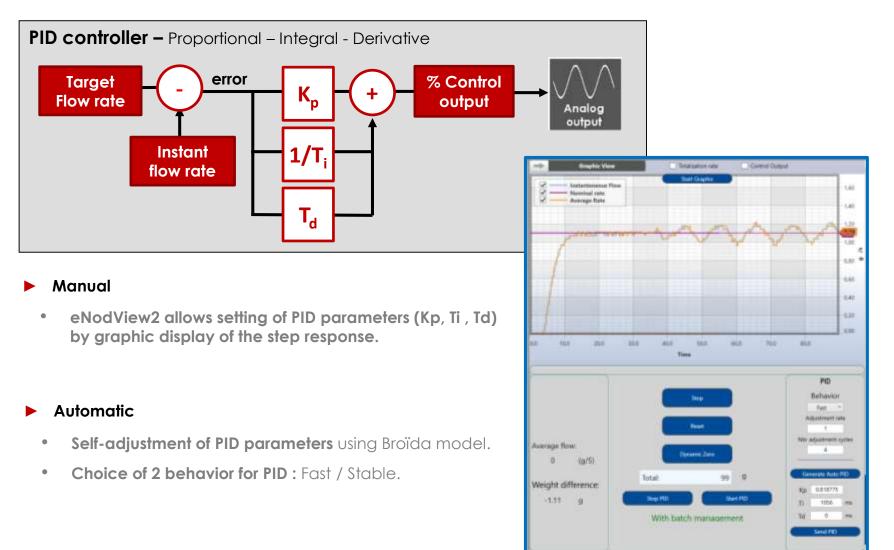






eNod4-B, Belt scale & belt weigh feeder

Setting of PID controller with eNod4 & eNodView2



scaime

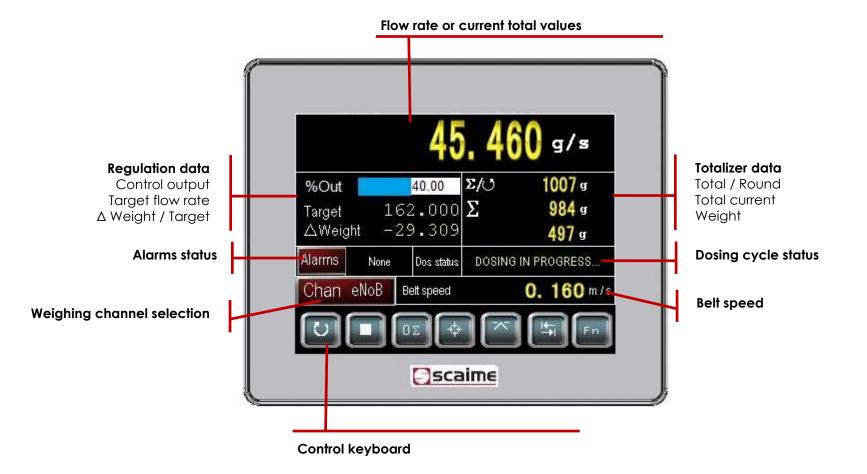
eNod4-B, Belt scale & belt weigh feeder

eNod4 applications

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eNodTouch Functionalities with eNod4-B

eNodTouch-M or ML main screen



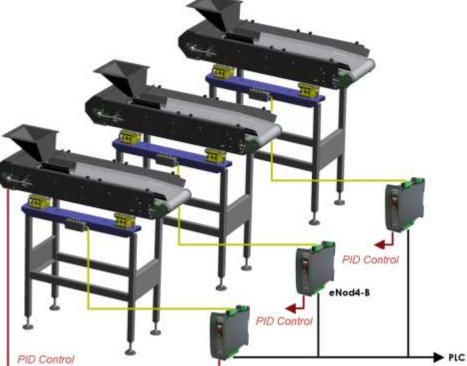
eNod4-B Belt scale & belt weigh feeder

Application case

Continuous mixing of 3 products with flow rate regulation

- The PLC handles the management of mixing formulas
- With the parameters transmitted by the PLC, 3 eNod4 take in charge of the belt feeders, the weight totalization and flow rate regulation.







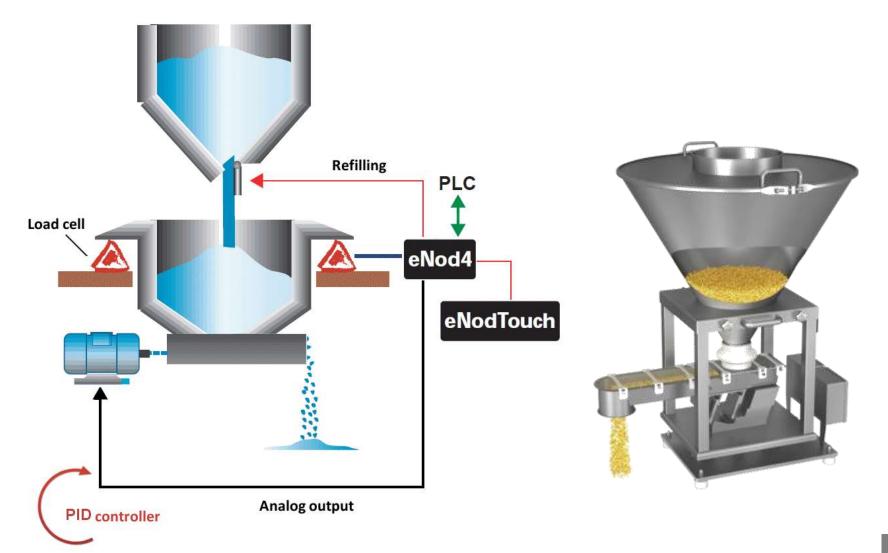








Application for Loss-in-weight feeders





Application for Loss-in-weight feeders

Configuration

- Physical or theoretical weight calibration
- Configurable flow rate unit: g/s, g/h, kg/s, kg/h, t/h
- Management of Target flow rate and Target total
- **Control output setting (Analog output):** Calibration in flow rate, possibility of remote control by external value
- Adjustment of PID controller parameters : Manual or automatic self-adjustment

Functionalities

- Flow rate calculation by loss-in-weight and continuous weight totalizing
- Pulse output for external Totalizer
- Flow rate regulation by in-built PID controller
- Automatic management of gravimetric dosing phases and refilling volumetric phases.
- Loading cycle management with target on total and inflight correction

Main alarms and controls

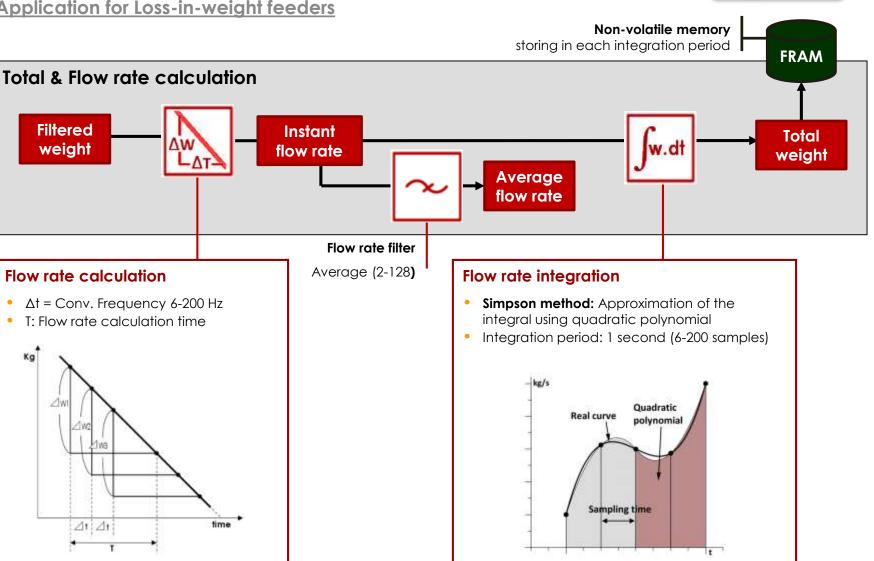
• Empty/Full vessel level, Min/Max Flow rate, Min/Max control output, Max refilling time, min weight variation in refilling, Max time for Batch





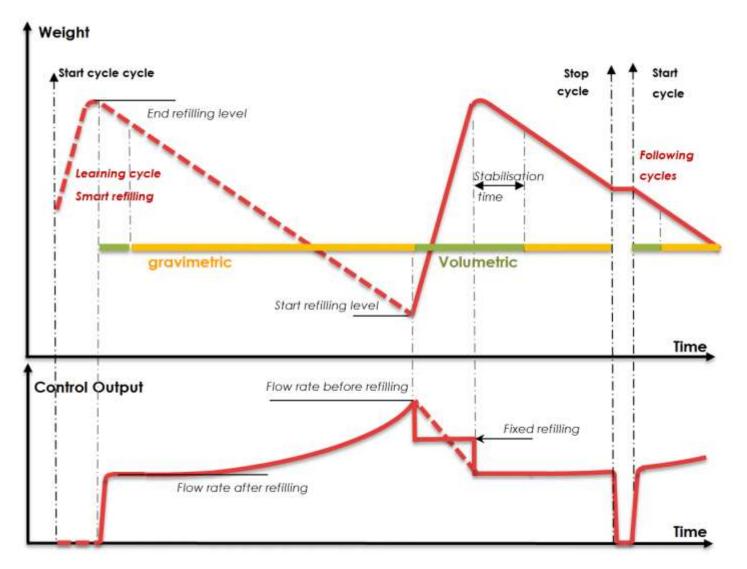


Application for Loss-in-weight feeders

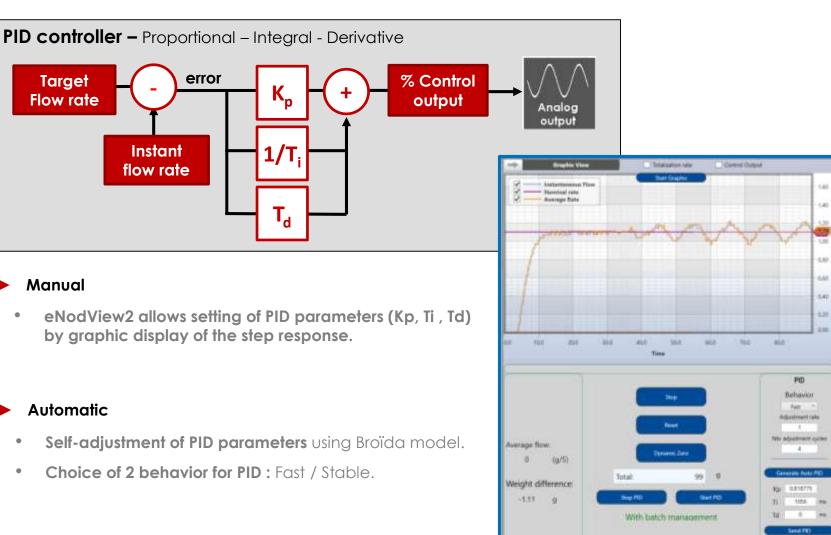




Application for Loss-in-weight feeders



Setting of PID controller with eNod4 & eNodView2





eNod4 applications

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eNodView2 functionalities with eNod4-F

Loss-in-weight control screen in eNodView2

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eNodTouch Functionalities with eNod4-B

eNodTouch-M or ML main screen









Schneider Electric partnership



Schneider Electric partnership

Presentation

Member of Schneider-Electric CAPP (Collaborative Automation Partner Program) since 2008

Machine

Plant

Eco **F**truxure

- Technological partnership to complete Schneider Electric solutions
- Interoperability validation with Schneider Electric architectures

Area of expertise

Solutions of weighing, dosing and filling

Markets

 Packaging, Food & beverage, mines metals & minerals

Schneider Electric architectures

 Validated weighing solutions for architectures dedicated to Machine control or Plant engineering.





Back

Plant

Modbus TCP

Schneider Electric partnership

Validated connectivity with Schneider Electric Automation architectures

- eNod4 CANOpen Communication validated on M340 and M238/M258
- eNod4 Ethernet/IP & Modbus-TCP Communication validated on BMXNOC 0401 for M340
- eNod4 Ethernet/IP & Modbus-TCP Communication validated on BMENOC 0301 for M580

Eco I truxure Machine M580 M340 BMENOC 0301 BMXNOC 0401







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