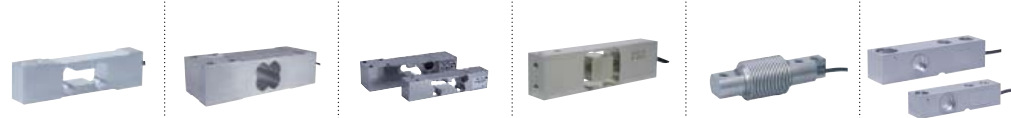


LOAD CELLS



| Model | AG | AP | AVX | AXL - AXH | F60X | SK30X |
|----------------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------|-------------------------|
| Type | Single point | | | | Bending | |
| Rated load capacity (Cn) | 1 kg ... 100 kg | 75 kg ... 635 kg | 15 kg ... 75 kg | 10 kg ... 500 kg | 5 kg ... 500 kg | 300 kg ... 5 t |
| Accuracy class | C3 / C6 | C3 | C3 / C6 | C3 | C3 / C6 | C3 / C6 |
| Combined error (% Cn) | 0.017 / 0.008 | 0.017 | 0.017 / 0.008 | 0.017 | 0.017 / 0.008 | 0.017 / 0.008 |
| Construction | Aluminum | Aluminum | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Protection | Coated, IP65 | Coated, IP65 | Sealed, IP69K | Sealed, IP69K | Sealed, IP68 | Sealed, IP68 |
| Maximum platform size (mm) | 400 x 400 | up to 700 x 700 | up to 600 x 400 | up to 600 x 600 | - | - |
| Certifications | OIML, NTEP, ATEX, IECEx | OIML, ATEX, IECEx | OIML, NTEP, ATEX, IECEx | OIML, ATEX, IECEx | OIML, ATEX, IECEx | OIML, NTEP, ATEX, IECEx |

ELECTRONICS



● : Standard - ○ : Optional

| Model | eNod4-B STD | eNod4-B IO+ |
|----------------------|--------------------------------|-------------|
| Type | Controller / Transmitter | |
| Capacity (Cn) | 1 channel | |
| Lay out | Din Rail / Stainless steel Box | |
| Accuracy class | 0.05 % | |
| Certification | - | |
| Internal resolution | 24 bits | |
| Formatted resolution | ± 500 000 pts | |
| Conversion speed | 400 meas./s. | |

Interfaces

| | | |
|------------------|-----------|-----------|
| Inputs / Outputs | 2 I / 4 O | 4 I / 4 O |
| Pulse input | - | ● |
| Analog output | - | ● |

Industrial networks

| | |
|-------------|---|
| Modbus-RTU | ● |
| Modbus-TCP | ○ |
| CANopen® | ● |
| Profibus-DP | ○ |
| Profinet | ○ |
| EtherNet/IP | ○ |
| EtherCAT | ○ |

| Model | eNodTouch-MS | eNodTouch-ML |
|---------------|------------------------------|-----------------|
| Type | IHM | |
| Capacity (Cn) | Multi-channel, 1 ... 6 eNod4 | |
| Lay out | Color touchscreen | |
| Display | LCD TFT 4"3 | LCD TFT 5"7 |
| Screen | color 480 x 272 | color 320 x 240 |
| Communication | RS485, Modbus-RTU | |

eNod4 for your processes safety:

Reliability and safety are essential factors to be taken into account for the control of industrial processes.

In order to ensure this functional safety, eNod4 integrates a **diagnosis of the measuring chain**. This diagnosis simulates a load by shunt resistor and can be triggered at any time by the PLC.



Belt Weighing

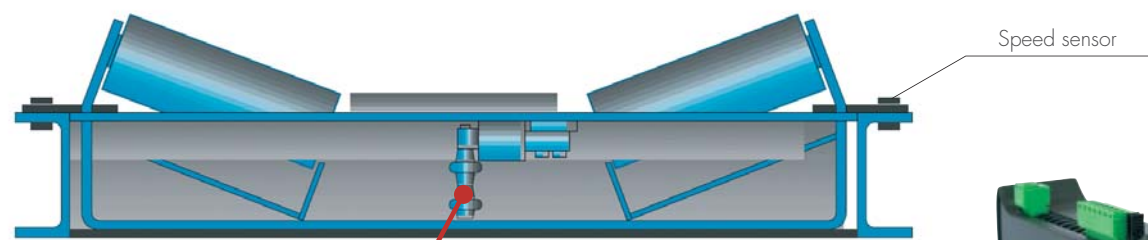
Belt scales, Weigh belt feeders



Presented by: Absolute Gauge Technologies
sales@absolute-gauge.com; www.absolute-gauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008

Flow rate control and totalization on conveyor belt...

SCAIME offers high accuracy load cells and versatile controllers for belt scales and weigh belt feeders. Easy to integrate into automated systems, these solutions include comprehensive continuous totalization and flow rate control.



Speed sensor

AG

LOAD CELLS:

SCAIME offers a comprehensive range of load cells for the design of your belt scale:

- Single point or bending beam load cells
- Capacity from 1 to 5 000 kg
- Aluminum or stainless
- Many fixing possibilities

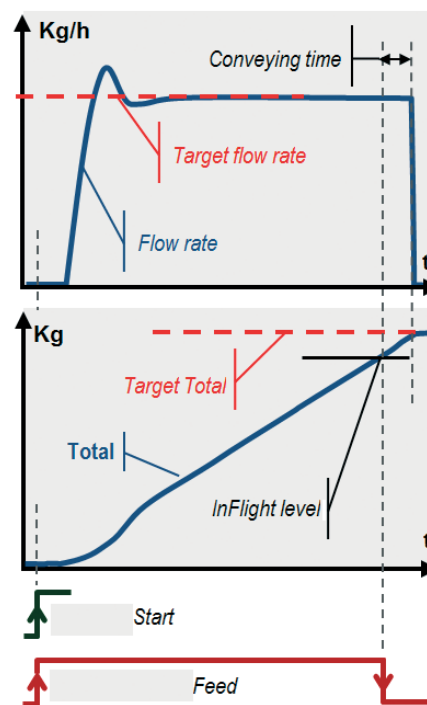
F60X

ELECTRONICS:

SCAIME has developed eNod4-B, a powerful and scalable weighing controller, fitted with an application for belt scales. Designed for an easy integration into automated systems, eNod4-B can also be used without PLC with the optional eNodTouch-M HMI.

eNod4-B offers advanced interfaces and functionalities to build a continuous belt weighing or feeding system:

- 1 input for the belt speed sensor
- 4 logic inputs and 4 outputs for dosing process control and pulse signal for remote totalizer
- Several levels of digital filtering to eliminate vibrations
- 1 adjustable analogue output



Continuous totalizer functions:

- Belt speed calculation and weight integration by length unit.
- Flow rate calculation and totalization of product quantity over the belt.
- Management of a dosing cycle with totalized weight target.

Weigh belt feeder functions:

- Flow rate control according to pre-set target, by PID adjustment.
- Automatic adjustment of PID parameters by self-learning technology.

Designed to communicate:

eNod controllers range offer a full access to process data or configuration data through the industrial network: CANopen, Modbus-RTU, Profibus-DP, Modbus-TCP, EtherNet/IP, Profinet or EtherCAT.

eNodTouch-M touchscreen:

Multi-channel HMI for configuration and monitoring of 1 to 6 eNod4, eNodTouch-M runs in parallel of the PLC connection or allows to use eNod4 without PLC.



SOFTWARE:

eNodView software allows configuration and calibration of all products of the eNod range. It is as well a powerful acquisition and signal analysis software for:

- Time and frequency graphic display of the signal
- Simulation and set-up of digital filters
- Graphic display of flow rate and PID control output

These functionalities make eNodView an essential tool for the analysis of mechanical disturbances, filtering optimization and set-up of PID regulation parameters.

