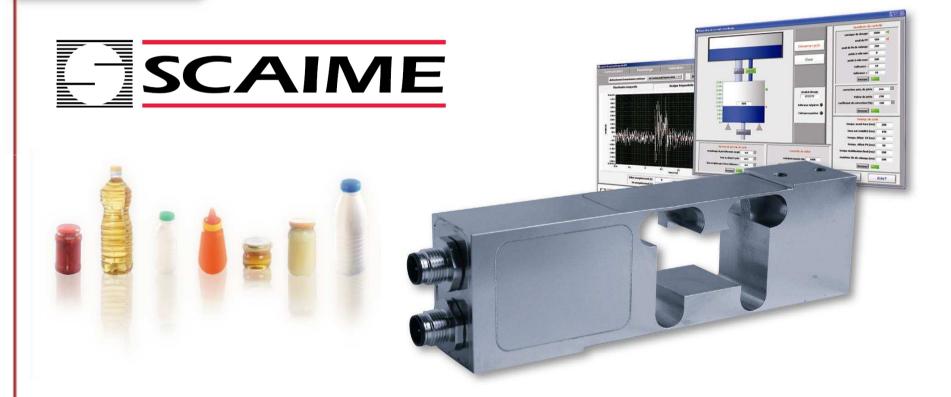
AXD Digital load cell



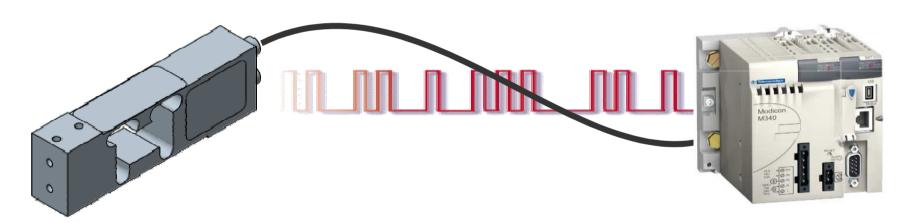






Digital single point load cell

AXD is a single point load cell with embedded electronics



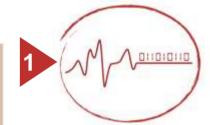
- AXD load cell is designed to be directly connected to automated systems
- It offers advanced process control functionalities
 - Allows the control of static process as well as dynamic.
 - Allows the control of mono-product dosing processes.



Presentation

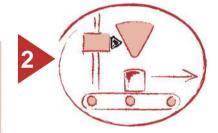
AXD-D applications

Measurement transmitter



- High speed measurement acquisition and transmission
- Triggering and samppling functions

Dosing



- Mono-product dosing by filling or by unloading
- Fine and coarse feed management
- Automatic in-flight correction



AXD load cells is perfectly adapted for high speed liquid filling



Presentation

Main specifications

Stainless steel construction allow a perfect adaptation to the environment

▶ Construction

Stainless steel construction

Connection by M12 5/8 poles

- Full welded
- IP69K protection level



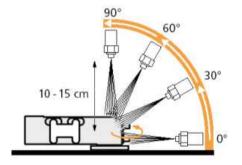
Metrology

- Power supply 10-28V

 Capacity 15, 30 and 75kg

 May platform size 400y46
 - Max. platform size 400x400mm
 - Resolution max. 500 000 d
 - Factory calibration & gravity correction
 - User scaling

IP69K

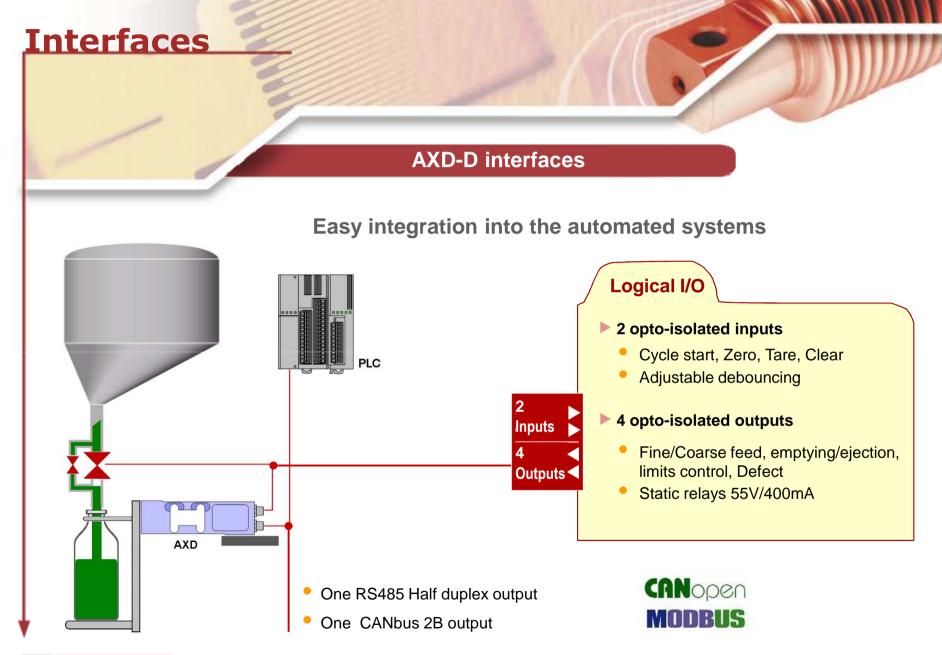


- ▶ 30 sec. cycles
- ▶ 14 16 I per minute
- ▶ water 80°C



connectors

► Electrical





AXD presentation **AXD-D** filling functions Limits In-flight level Weight control In-flight correction Fine feed level Delay Emptying level Start level Time Start Coarse feed Fine feed Emptying

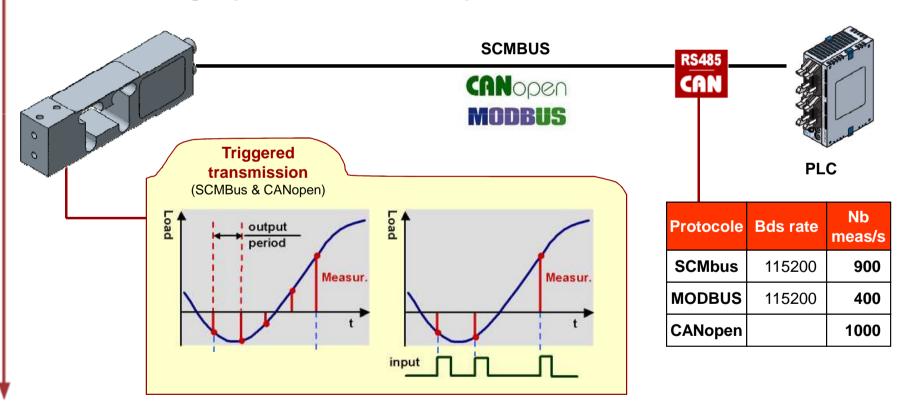




Measurement transmission

AXD weight transmission functions

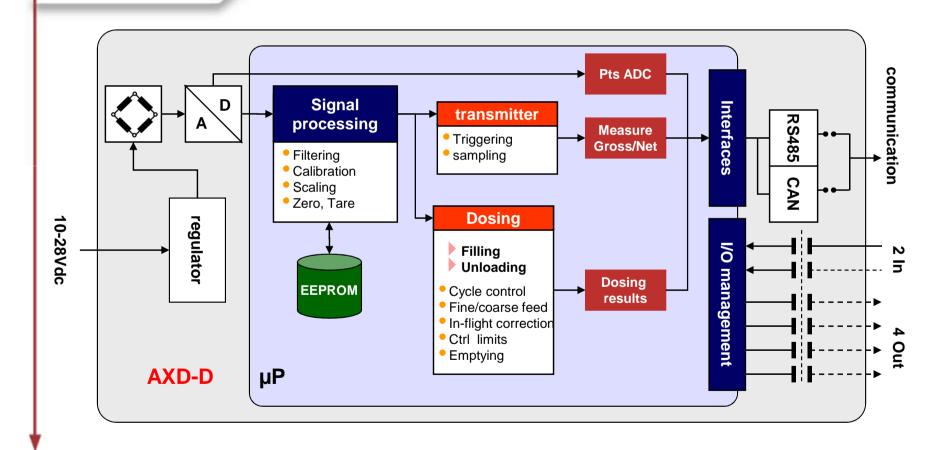
► AXD allows high speed measurement acquisition and transmission





Structure

AXD-D Internal structure





Signal processing **AXD Signal processing tools** Converter **µControler** Permanent factory calibration 24 bits resolution 500 000d at max Conv. rate 6 to 1600Hz capacity **Post-Filtering** with Low-pass filter Bessel/Butterworth Band-cut filter User scaling on Attenuation (dB) conv. rate factory calibration Attenuation (dB) cut off Attenuation (dB) cut off frequency frequency **Gravity correction** Frequency (Hz) Frequency (Hz) Frequency (Hz)



AXD Summary

Main Advantages of AXD

- ► IP69K protection level
- ► Thanks to Its new measuring principle, the AXD present an unbeatable combination of :
 - Very high accuracy
 - Highest protection level allowing its use in wash down applications.
 - High resistance against side force without any additional devices





AXD Summary

Main Advantages of AXD

- ► AXD electronics is designed around the latest 24-bit A/D converter.
- ► AXD dosing firmware integrate algorithms optimized for rotary liquid filling machines.
- ▶ To meet the needs of high speed weighing, it uses a library of powerful digital filters.
- ► To set up the application, SCAIME provide the eNodView PC freeware allowing to optimize the dosing process and triggering events.

