

December 2020

WEBINAR

 \Box



LAUMA5[®] Innovation in Weighing



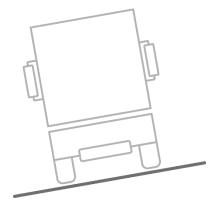
INCLINOMETER FUNCTION: ON BOARD WEIGHING



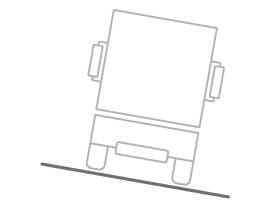




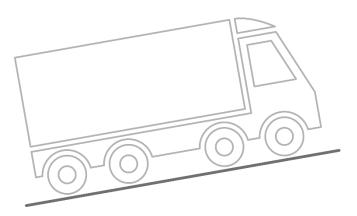
ALWAYS A CORRECT WEIGHT



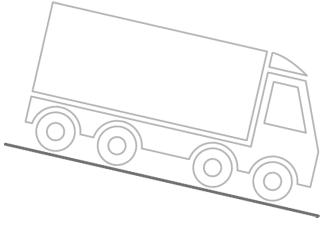
1000 kg = 1000 kg displayed



1000 kg = 1000 kg displayed



1000 kg = 1000 kg displayed



1000 kg = 1000 kg displayed

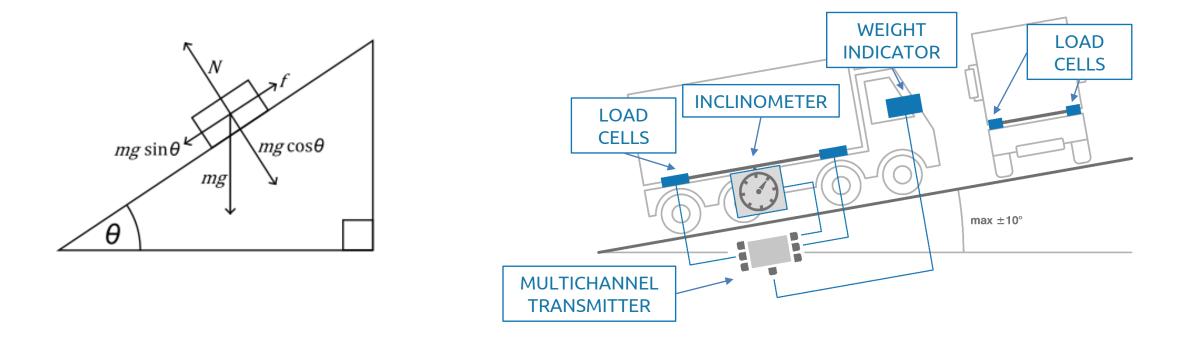




SLOPED WEIGHING SYSTEM: THE PROBLEM

Plane inclination effects on the weighing system

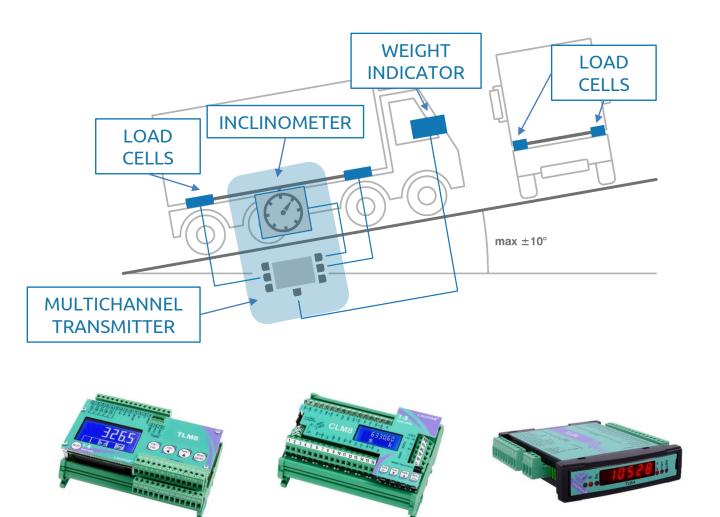
- Load cells measure only the vertical component of the weight
- The calculated weight values is distorted by the inclination
- The value of the weight changes depending on the plane inclination





TLM8

SLOPED WEIGHING SYSTEM: LAUMAS SOLUTION



CLM8

TLB4

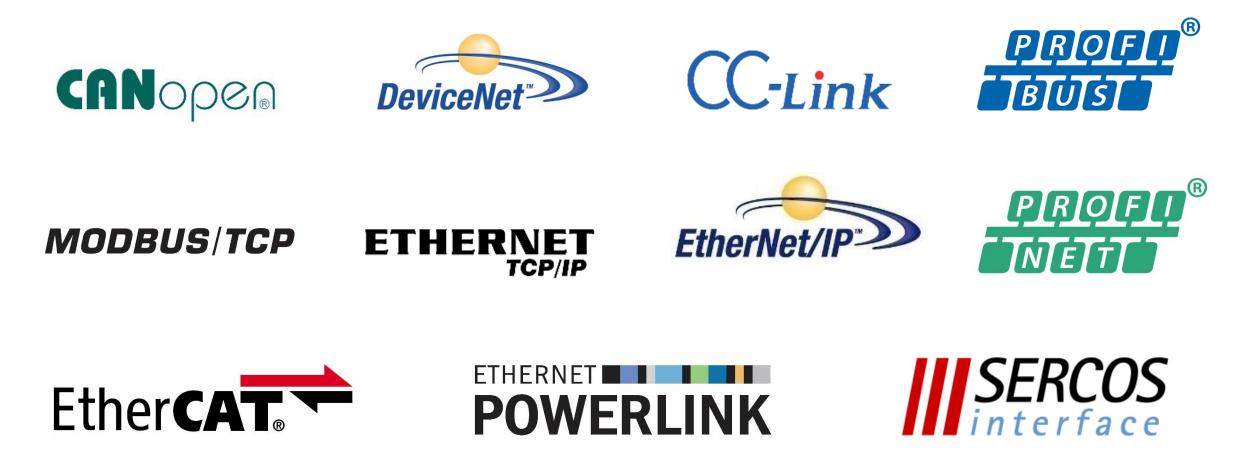
Inclination compensation system

- Multi-channel transmitter
- Biaxial incline sensor mechanically connected to the weight receptor
- Weight indicator
- The weight transmitter exploits the incline sensor reading to correct the calculated weight, removing the distortion introduced by the inclination



INCLINATION COMPENSATION: LAUMAS SOLUTION

• Complete management of the function via **MODBUS-RTU** or Fieldbus







INCLINATION COMPENSATION: LAUMAS SOLUTION

Maximum operative	Two levels of tilt
interval: ±10°	compensation available
Maximum allowed tilt	OIML R 76 certified
configurable for each axis:	(Class III – 5200 VSI –
associated tilt function	2 intervals / 2 ranges)





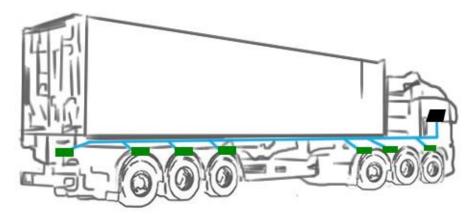
INCLINOMETER: TARGETS AND RESULTS

Weigh anywhere and anytime	Time and money savings
Direct and immediate feedback with customer / supplier	Weighing approved for use in relationship with third parties

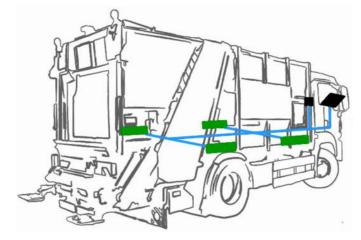




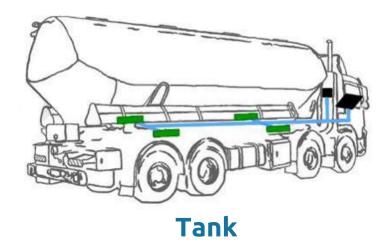
APPLICATIONS: ON BOARD WEIGHING

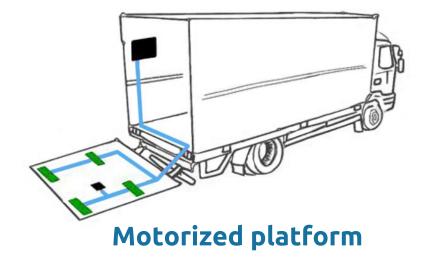


Container



Garbage







APPLICATIONS: PALLET TRUCKS, FORKS AND WEIGHING ON WHEELS

Pallet Truck Scale installation

Forklift installation



Forks installation









COMPONENTS









HMI / PLC



COMPONENTS: MULTICHANNEL TRANSMITTERS

CLM8



- Load cell input
- Inclinometer sensor serial port connection
- Weight indicator serial port connection
- Different installations
- Different cases and IP protection classes

TLB4











COMPONENTS: LOAD CELLS



The most common load cells

- Load cells for more than one support
- Single point load cells
- Different capacities













COMPONENTS: INCLINOMETER SENSOR

CONNECTION VIA RS-485/RS-232













COMPONENTS: WEIGHT INDICATORS

- Different installations
- Different cases and dimensions
- Different IP protection classes











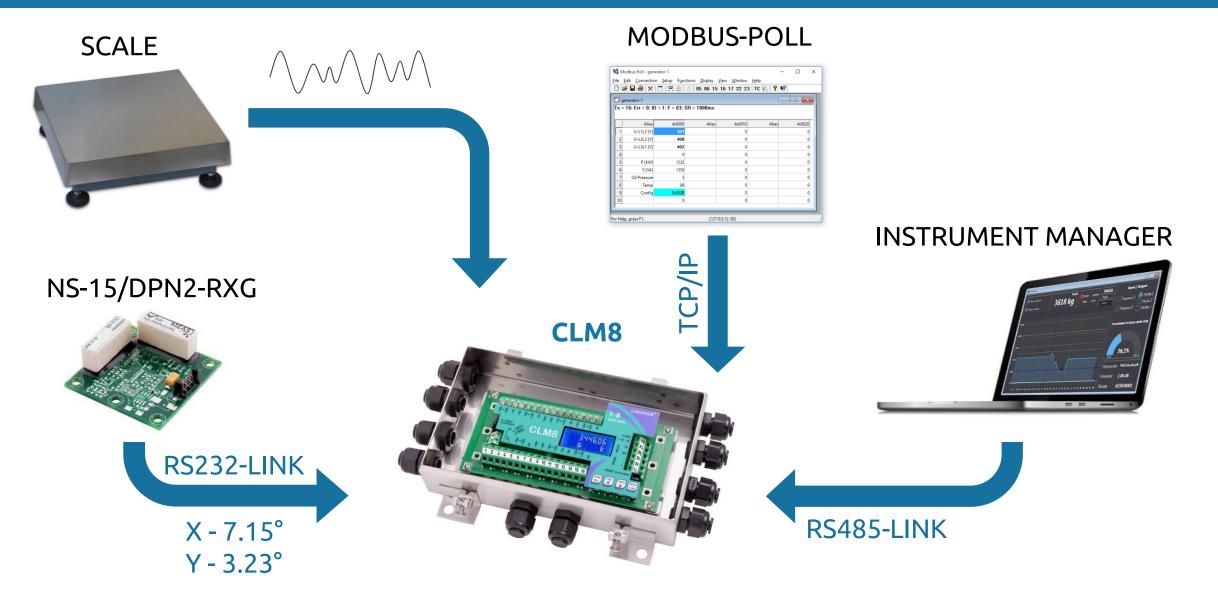
COMPONENTS: OPERATOR PANEL

- Your HMI Operator Panel or PLC
- Total control of LAUMAS multichannel transmitters





DEMO: SETUP





www.laumas.com/en



Thanks for your attention!