EMULA Series
INTELLIGENT JUNCTION BOXES

MADE IN ITALY

OIML

BILANCIAI GROUP

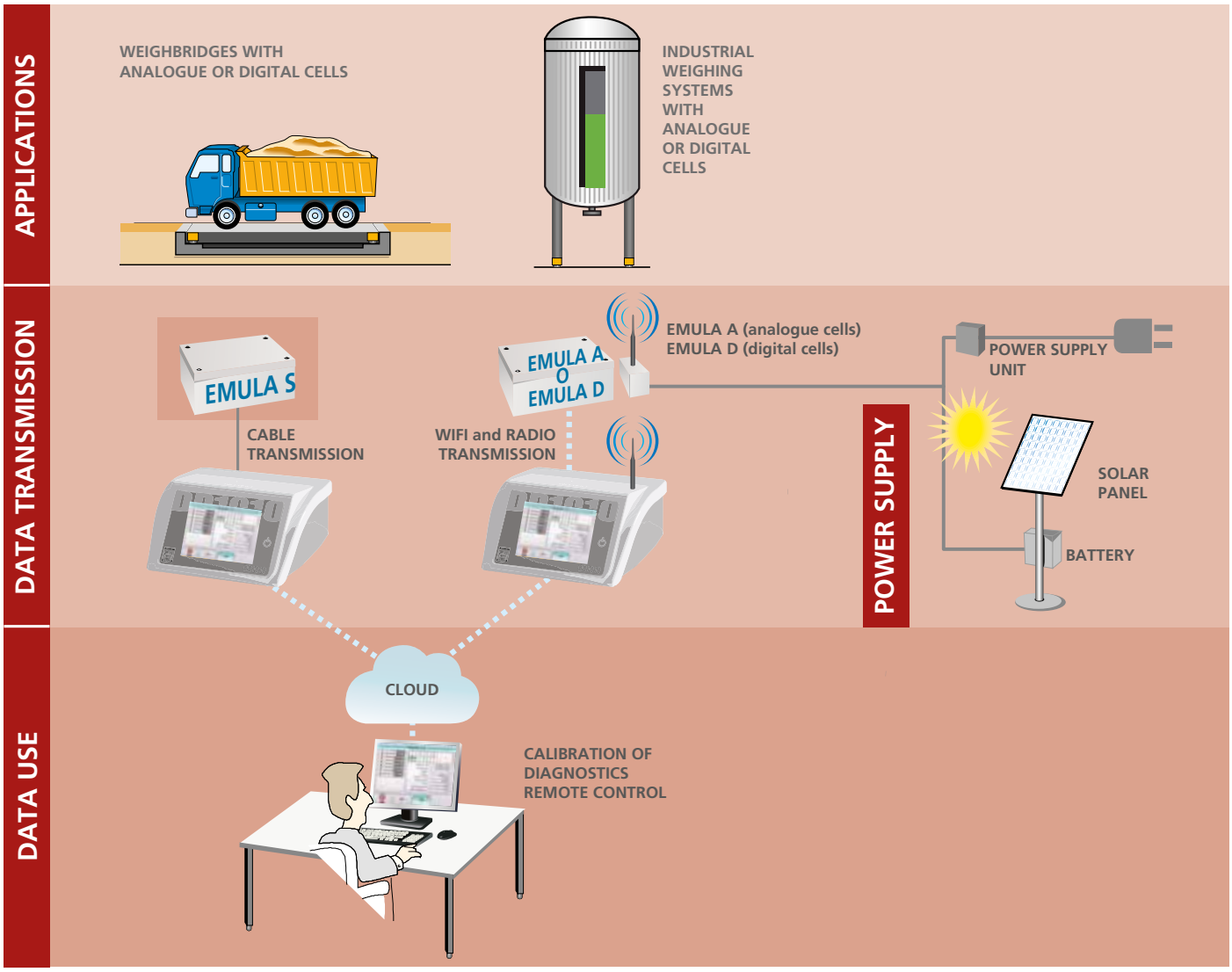
EMULA Series - Intelligent junction boxes

The ever increasing demand for digital technology in weighing operations is a consequence of the significant advantages it provides.

DATA RELIABILITY: digital data is extremely reliable thanks to the high level of immunity to disturbance and interference and the ability to transmit data over long distances.
IDENTIFICATION: each cell is identified unequivocally by an individual calibration coefficient

THIS ALLOWS FOR

RAPID CALIBRATION: during installation
INDIVIDUAL DIAGNOSTICS: each individual cell is monitored allowing faults to be signalled immediately using the weighing terminal
REMOTE CONTROL: system operation can be verified remotely allowing system calibration to be performed without on-site intervention



ACCESSORIES

RF KIT - electric cabling is no longer a trouble Use of the RF-KIT allows the radio data transmission of the digital weight up to distances of 200 m thus providing a solution when laying cables is problematic or expensive.

WIFI KIT - data moves quickly over the network
This allows the weighing tool to dialogue in existing wireless and/or Ethernet networks. A transmission module is fitted on the weigh station and on the weighing terminal.

ENERGY 3 KIT
ENERGY 12 KIT
clean energy, a solution without mains power
EMULA can be powered using photovoltaic panels or a battery unit.

EMULA-S model INTELLIGENT JUNCTION BOX

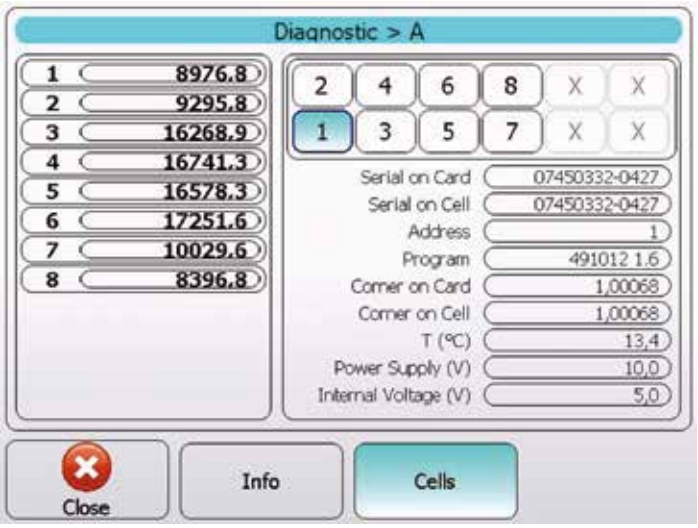
The EMULA_S junction box transforms analogue weighing systems into modern digital ones. At very low cost EMULA_S can be connected to a Dialogica or Diade series terminal to obtain all the benefits of digital technology without having to change existing weighing cells.

EMULA-A model INTELLIGENT JUNCTION BOX

The EMULA-A junction box converts signals from the analogue weighing cells into digital data. The software installed on the device processes the data from each individual cell to produce a weight in compliance with reference recommandations norms and which can therefore be transmitted to the weight indicator using a cable or radio connection.
The wireless connection with the weight indicator can also be made legal systems for trade for data exchange with third parties thanks to the CE-certified transmission protocol in compliance with Welmec guides.

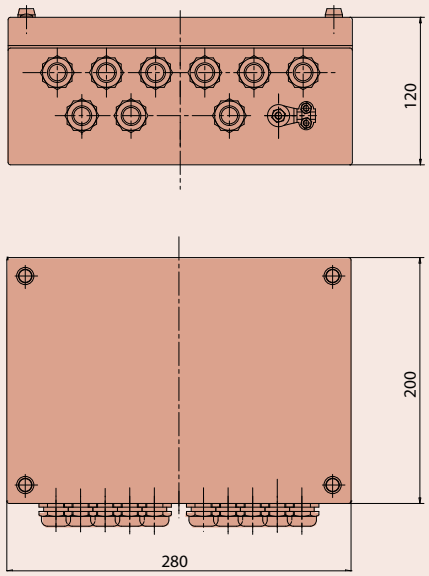
EMULA-D model INTELLIGENT JUNCTION BOX

The signal from the digital loading cells is processed into a weight value and transferred using a wifi or radio connection to the weight indicator.
This means the connection between the weighing platform and weight indicator is wireless.
All sampling and diagnostic operations are performed using the weight indicator or directly on the device itself.



Example of a diagnostics page

		Emula-S	Emula-A	Emula-D
CELL TYPE	analogue	•	•	
	digital			•
TRANSMISSION	radio		•	•
	wifi		•	•
	cable	•		
CALIBRATION AND DIAGNOSTICS	calibration coefficient checks	•	•	•
DIAGNOSTICS	eccentric load correction	•	•	•
	cell power supply checks	•	•	•
	reset, operating parameter, etc. checks	•	•	•
	cell temperature			•
	error logging	•	•	•
POWER SUPPLY	mains	•	•	•
	solar panel	•	•	•



JUNCTION BOX TECHNICAL SPECIFICATIONS

Power supply	**from 10 to 18 V DC**
Maximum number of load cells	**8**
Maximum number of divisions	**6000 for individual field tools** **3x3000 for multi-field tools, CE approval**
Transmission	**RS485 cable, wireless**
Container	**Stainless steel 280x200x120 mm**
Protection rating	**IP 67**

ENERGY 3 KIT

Kit composition

- *120 W solar panel*
- *1 support post*
- *1 charge regulator*
- *1 40 A/h battery*
- *1 electrical panel*

Technical specifications

- *maximum applicable load 2 A at 12 V DC*
- *Operation during non-daylight hours*
  1.5 days (permanently ON) 500 mA (EMULA+8 cells+radio)
  3 days (8 operating hours/day) 500 mA (EMULA+8 cells+radio)
- *Battery recharging*
  4.5 h of direct sunlight 500 mA of applied load

ENERGY 12 KIT

Kit composition

- *2 120 W solar panels*
- *1 support post*
- *1 charge regulator*
- *1 110 A/h battery*
- *1 electrical panel*

Technical specifications

- *maximum applicable load 5 A at 12 V DC*
- *Operation during non-daylight hours*
  4 days (permanently ON) 500 mA (EMULA+8 cells+radio)
  12 days (8 operating hours/day) 500 mA (EMULA+8 cells+radio)
- *Battery recharging*
  4.5 h of direct sunlight 500 mA of applied load

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