

# Kit GA1404 Static and dynamic industrial

weighing systems

Versatile dynamic weighing and dosing system for various types of packaging machines.

It integrates with the packaging process of numerous varieties of products and for different industrial packaging sectors, mainly the food sector.

It consists of a CPU control unit, an HMI DISPLAY panel for viewing and managing data, and one or more I/O boards for integration with the packaging machine.

The system is able to manage the operation of vibrators and belts for transporting the product, monitor the current weight based on the recipe parameters set, manage the informations and communicate with the subsequent components of the packaging line to allow packaging.



### **Customer service**

For any further information we will be happy support. Contact us and receive

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CPU control unit

The CPU is the heart of the system and allows you to connect up to four load cells to manage as many weighing units.

The tare and calibration functions allow the use of various types of load cells with different capacities, to meet all speed, accuracy and precision requirements. Each weighing unit can be managed independently or in combination based on the type of product to be packaged but also based on the package itself.

It is possible to set up to 99 recipes, each of which contains all the parameters and times necessary for the operating cycle. The main interfaces are Ethernet, for communication via Modbus TCP with the display panel, and USB, for updating the system firmware; are also optionally available an RS485 serial, an RS232 serial, a CAN interface, and an expansion module to communicate with other types of protocols, such as PROFINET, EtherCAT and EtherNetIP.

The control and management firmware is equipped with numerous functions and parameters to best adapt to the various components of the line; should additional functionalities become necessary, it is possible to customize them in order to satisfy every need.

The I/O board carries out the commands relating to each single weighing unit and allows you to make the necessary wiring to adapt to the packaging machine. It manages up to 6 vibrators in 48V, up to 5 inputs (unloading consent, photocells, auxiliaries) and up to 8 static outputs

### Technical characteristics

Power supply: 24V / 230VAC Isolated PWM outputs for vibrators: 6 to 24 Weighing unit: 1 to 4 Fast isolated PWM outputs: 2 to 8 Load cell inputs: 1 to 4 Ethernet interface: 1 Isolated digital inputs: 8 to 32 USB interface: 1 Isolated digital outputs: 10 to 40 RS485 interface: 1

RS232 interface: 1 CAN interface: 1 Multi-protocol expansion module: 1 Item weight: 850 gr. Item size: 155 x 170 x 140 mm

## (2) Power I/O board



#### Technical characteristics

Static outputs power supply: 24V	Inputs: 5
Vibrators power supply: 48V	Static outputs: 8
Vibrator outputs: 6	Item weight: 600 gr Item size: 210 x 150 x 45 mm

#### 3 HMI display panel

The display panel represents the brain of the system, it allows you to set/view all the parameters available on the CPU and activate or not the various present funcionalities. As regards the graphic part it is possible to connect different types of industrial HMI panels and with dimensions ranging from 4.3" to 15" according to the need; should further services or requests become necessary, we can provide you with some of our custom solutions.



### **4)** Remote control

It is possible to install the EasyLink product as an accessory to connect to the CPU control unit, through the RS485 serial port, which allows the system to be connected to the PC and the cloud. This allows you to monitor and control the weighing system via desktop PC or specially developed App on smartphones and tablets, and also allows you to meet the requirements relating to Industry 4.0.