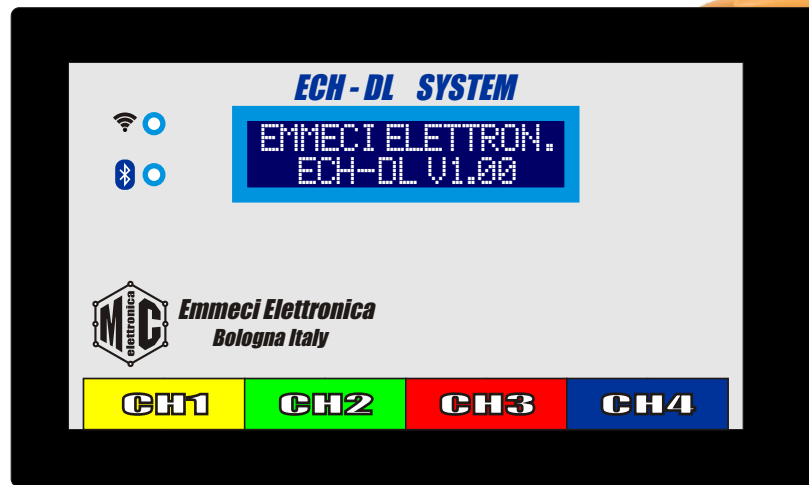




# EMMECCI ELETTRONICA

BOLOGNA - ITALY



## DL-SMART data acquisition and remote assistance system

**T**he DL-SMART is a system that can be combined with the Easy-charge granule adhesive unit compatible with 4.0 industry specifications.

Through DL-SMART it is possible to remotely manage all the statistics, remote assistance and configuration of the Easy-charge granule adhesive unit, with obvious advantages given by the possibility to check the productivity of the lines, optimizing the supply of the adhesive and to allow easy and quick check of the adhesive loading system.

### Why choose DL-SMART:

**Warehouse optimization:** both in terms of the supply of consumables used by the lines (adhesive, packaging, etc.) and for the control of the stock of the goods produced.

**Remote assistance:** thanks to the possibility to check remotely and in real time all the charging phases and the status of the system, it is possible to promptly highlight any anomalies and downtime on the production line, optimizing the recovery times.

**Precise production statistics,** thanks to the recording of the quantity of adhesive loaded and the time at which the charge took place. In the case of a multi-channel Easy-charge, the statistics are divided channel by channel.

**Activation of the rental functionality** for those customers who need to use the Easy-charge unit for limited periods of time and want to avoid the purchase.



**Main DL-SMART unit**

The DL-SMART system consists of the main unit, equipped with Bluetooth and WiFi interfaces, and a weighing platform on which the Easy-charge unit is housed.

The Bluetooth interface is used to configure the system, a configuration that can be performed using the following tools:

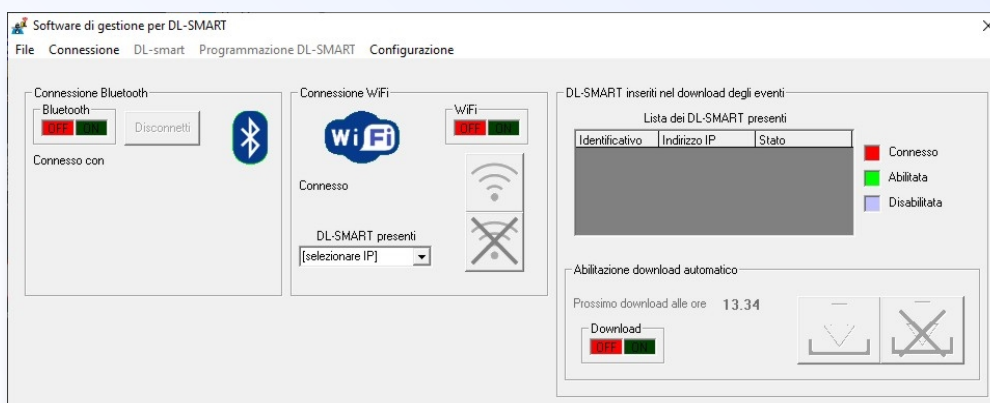
- DL-SMARTcom software for PC with Windows<sup>®</sup> XP or higher operating system;
- DL-SMART app for mobile devices running Android version 4.0 or higher.

The parameters relating to the WiFi network to which DL-SMART must connect are initially entered on the main unit; calibrations of the weighing platform are also carried out, which allow the system to measure the quantity of adhesive delivered with high precision.

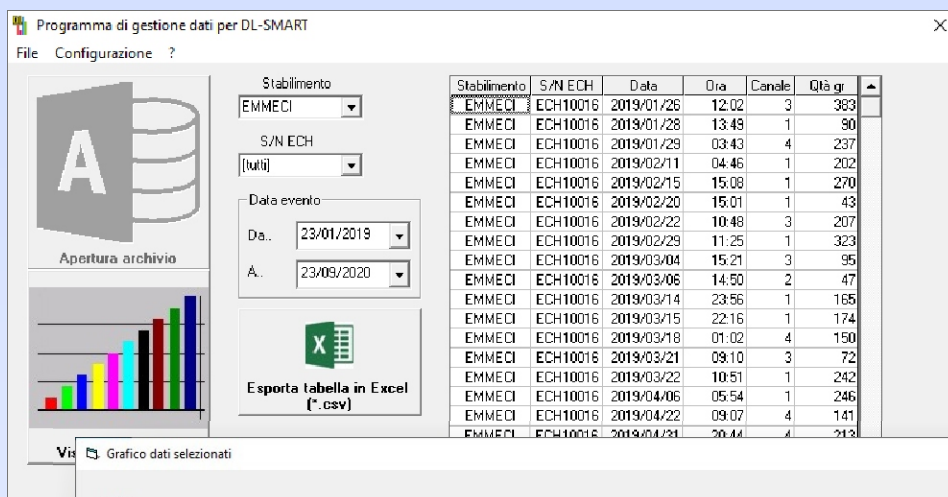
After the initial configuration, the DL-SMART becomes an integral part of the network to which it is connected and can be reached from any PC that is connected to the same network.

Through the DL-SMARTcom software it is now possible to carry out all the statistics and remote assistance operations:

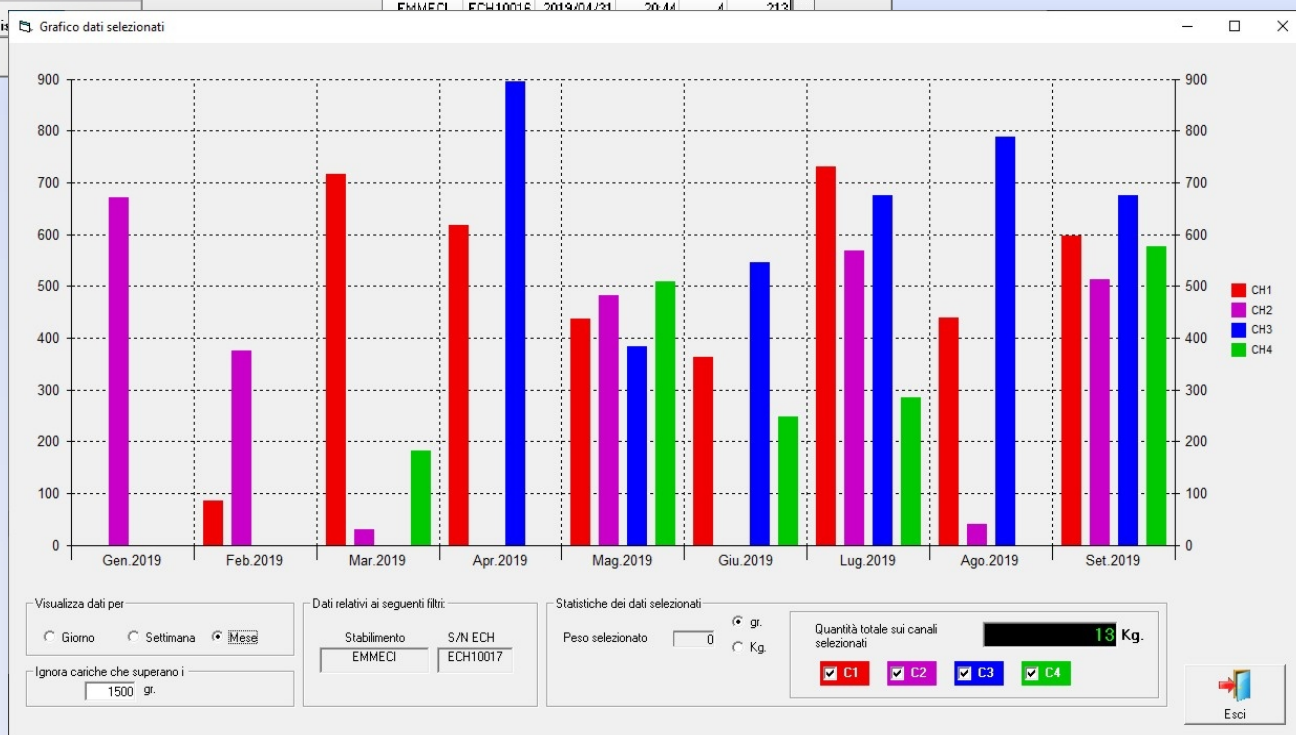
- Synchronization of the clock/calendar of the DL-SMART with the PC one;
- Download of data relating to the quantity of adhesive transferred and/or deletion of the archive;
- Checking the status of the system and the functioning of all parts (agitator blade, suction pumps, weighing platform, level sensor, etc.)
- Selection of the location and how to save the data downloaded from the DL-SMART. It is possible to save the archive in any folder both within the PC itself, and in any network location (with the possibility of sharing the archive among the various users).



**Connection and configuration software DL-SMARTcom**



**DL-DATAmanger software:  
selection of the data  
to be displayed**



**DL-DATAmanger software: display of the selected data**

The archive downloaded through the DL-SMARTcom program contains all the data detected since the installation of the DL-SMART system.

It is an archive in MDB format and contains the following data:

- Name of the establishment where the DL-SMART is installed;
- ID (generally serial number) of the Easy-charge unit associated with the DL-SMART;
- Charge start time and date;
- Number of the channel on which the charge took place;
- Amount of adhesive transferred.

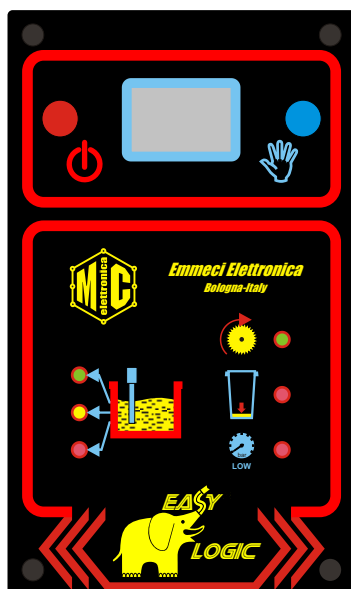
This archive can be managed with any program that can access files in MDB format compatible with Microsoft®Access®, however the DL-SMART system is equipped with the DL-DATAmanger program which allows you to view the archived data, filtering them according to the criteria chosen by the user and showing them in a histogram chart complete with details such as the total amount of transferred adhesive calculated on one or more channels. DL-DATAmanger can also export the archived data in CSV format (compatible with Microsoft®Excel®), to ensure the analysis and management of these information much more efficient.

The installation of the Easy-charge complete with the DL-SMART does not need any special requirements, since DL-SMART is able to connect to any WiFi network with WPA access protection and is able to manage passwords up to a maximum length of 64 characters.

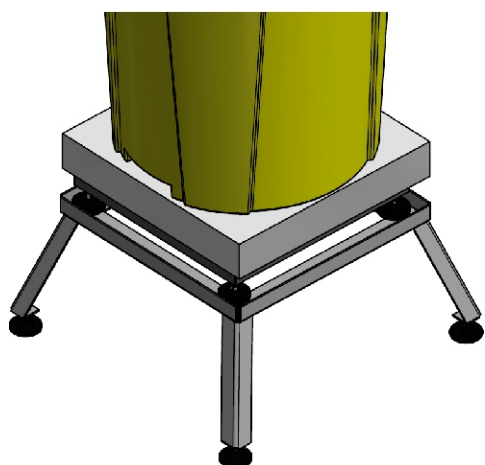
# The evolution of Easy-charge

The functions performed by the DL-SMART system are linked to the Easy-charge unit to which it is combined. The 2 versions of the Easy-charge are compatible, therefore it is possible to update the electronics of the Easy<sup>2</sup>charge version to the Easy-charge<sup>WiFi</sup> one.

## Easy<sup>2</sup>charge



If the Easy-charge unit is equipped with this version of control electronics it is possible, by adding the weighing platform to the DL-SMART, to have the statistics relating to the consumption of adhesive divided by each channel (in case of multi-channel Easy-charge).



EASY-LIFT support with platform  
weighing 209XX027

## Easy-charge<sup>WiFi</sup>



If the Easy-charge unit comes with this version of control electronics you can take advantage of all the features offered by DL-SMART:

- Statistics on the amount of adhesive transferred;
- Remote assistance functions with remote verification of the state of the system and the level of the adhesive in the melting tanks;
- Programming of loader operation parameters (charge time, break between two charges, etc.);
- Plant rental function.



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[www.emmeci-elettronica.com](http://www.emmeci-elettronica.com)

e-mail: [info@emmeci-elettronica.com](mailto:info@emmeci-elettronica.com)

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