

EST Energy

Embedded Smart Technology for small HVAC systems



People



Products



Performance



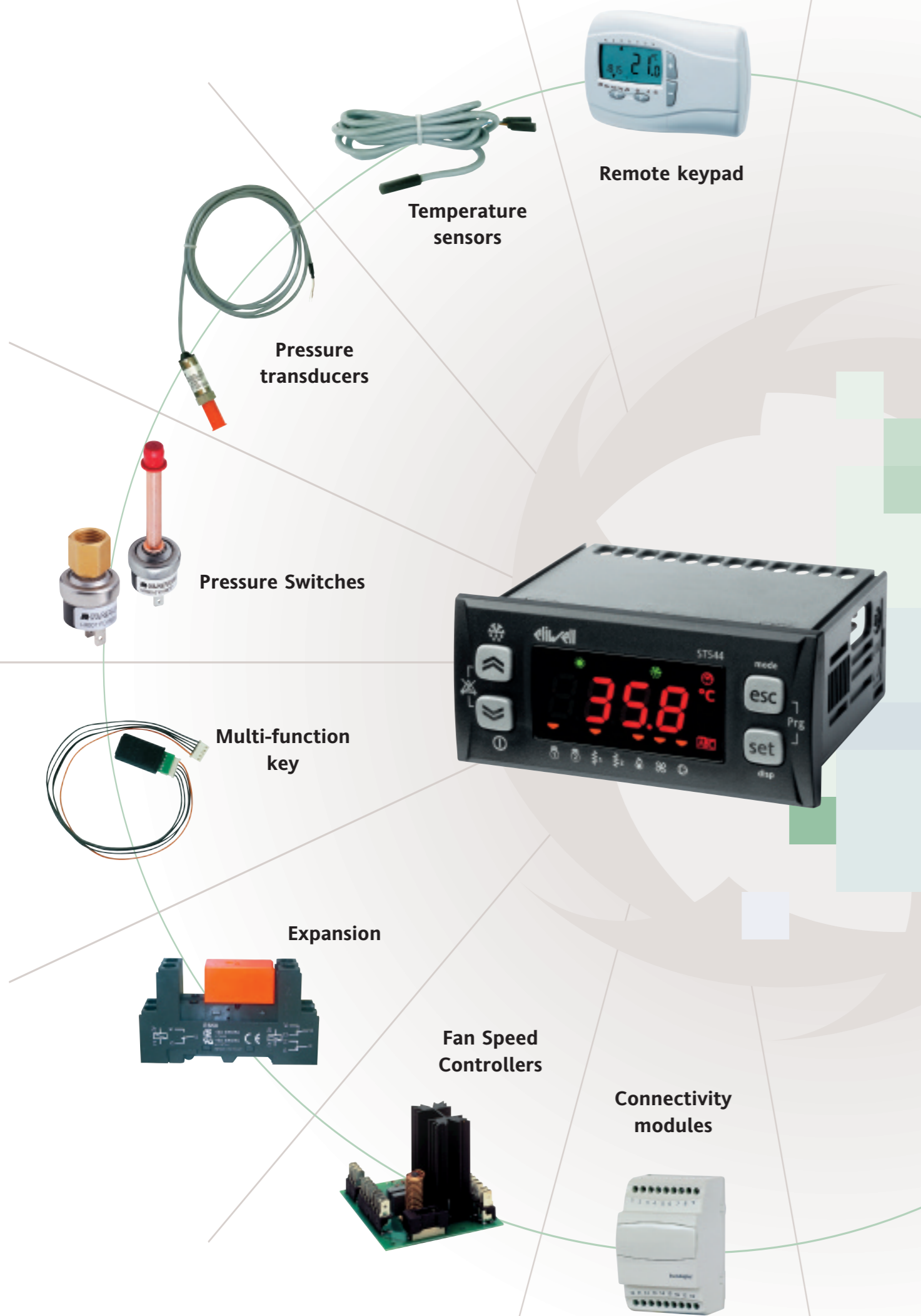
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A COMPLETE OFFER



Remote keypad

Temperature sensors

Pressure transducers

Pressure Switches

Multi-function key

Expansion

Fan Speed Controllers

Connectivity modules



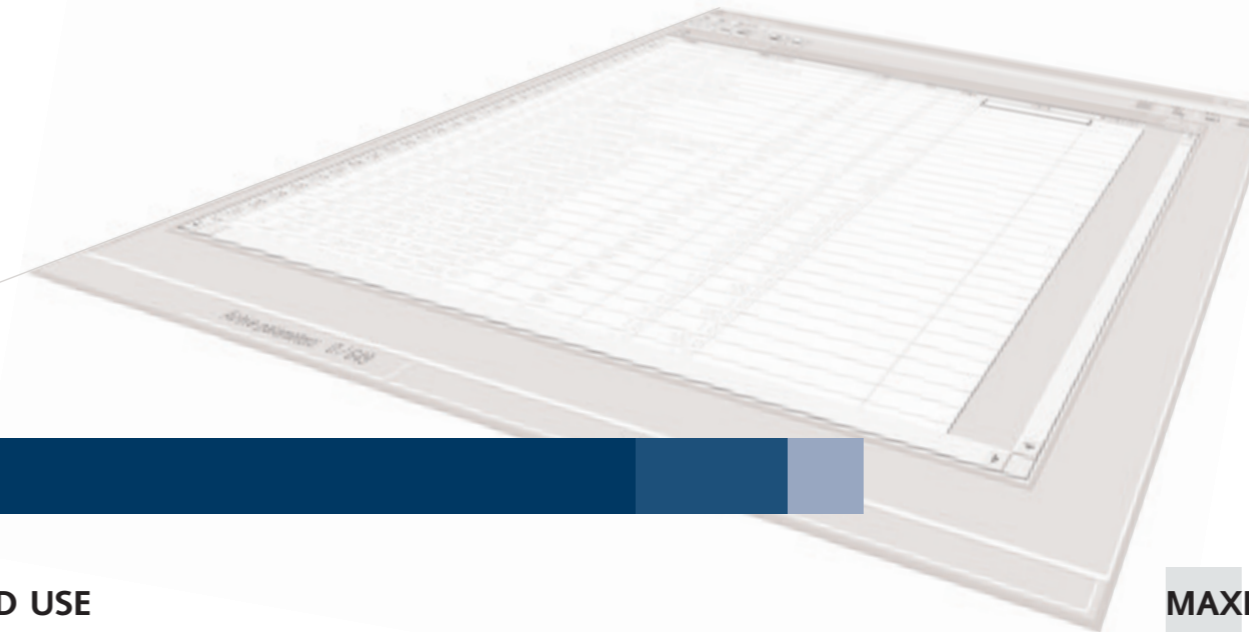
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Energy saving and innovative applications in a new range of controllers for the HVAC market



Eliwell, the market leading company for air conditioning controls in small and medium-size units, is once again setting a new standard with its introduction of Energy ST, a new range of electronic controllers with advanced functions, specific for central air conditioning units.

Energy ST, the next generation of ECH family of controllers, is used for the control of refrigerators, heat pumps, condensing units and Close Control, inside industrial systems in minimarkets, offices, hotels and homes.



EASY TO INSTALL AND USE



The main features of the new Energy ST range include easy installation and use: all the main functions of the user interface can be activated by 4 keys, and also personalised with the manufacturer's icons and logos. The 4-digit display with 18 icons, 7 of which are configurable, offers clear readability, with dedicated units of measures for each value displayed. Using the 4 keys it is possible to modify the current display, select the operating mode, activate manual defrost and switch the controller on/off, as well as browse the menu arranged in folders. Access to the folders and parameters is configurable through three different levels: end user, service and constructor.

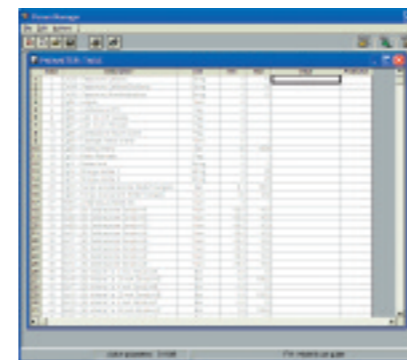
REMOTE KEYPAD WITH LCD



The range also features an extremely compact LED keypad for panel-mounted applications.

A remote keypad, with backlit LCD and 4 keys, facilitates not only all operations for configuration but also control of application such as rooftop, floor heating, domestic heat pumps. The keypad, featuring a modern and attractive design that easily fits in with the furnishing, is equipped with a probe for measuring the room temperature, with the option of connecting another remote probe for temperature and humidity. It can be powered directly by the Energy ST or from the mains.

POWERFUL UNIT CONTROL SOFTWARE AND REMOTE MANAGEMENT THROUGH STANDARD COMMUNICATION PROTOCOLS



Local and remote monitoring and management of most of the system functions is possible, because of the powerful unit control software and the ModBus standard communication protocol.

This permits a variation in the operation mode, the ability to read significant system variables and to display the alarms history, thereby considerably reducing system validation and laboratory testing.



MAXIMUM APPLICATION FLEXIBILITY THANKS TO A MODULAR SYSTEM



Thanks to the several different hardware platforms and highly flexible I/O configuration, the controller can be adapted to suit a variety of applications and the relative electrical control board can be simplified, cutting both costs and installation times. All the controllers are equipped with a Real Time Clock (RTC), for managing the time bands and alarms history, as well as a programmable chronothermostat. Also, all the alarms history information is accessible on the display without the use of Software. With an optional Copy Card it is possible to load and download the controller parameter map for fast configuration, download the alarms history and load the Software applications.

ADVANCED ALGORITHMS AND FUNCTIONS FOR ENERGY SAVING



High capacity within the microprocessor's memory equips the instrument with advanced adjustment algorithms. This includes a modulating control of the water pump, dynamic defrost, analogue condensation control and heat pump deactivation for very low external temperatures. These controls can be used to reduce energy consumption within the installed system with significant impact. The addition of a high number of analogue outputs provides increased flexibility so that any kind of utility can be managed with power modulation to increase the energy efficiency of the unit.