Electronic Technologies

COSTER

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Controller suitable for regulating, command, control of HVAC and technological plants

EC² SYSTEM

Freely
Programmable universal controller

The new **COSTER** universal controller represents an essential element of a Building Management System. It is in fact suitable for regulation, command and control of HVAC and technological plants (fire prevention, cctv, safety, service information, alarm management, …).
The controller is flexible and freely programmable: a bespoke solution can be supplied for all customers' demands.

ENERGY MANAGEMENT

AMBIENT TEMPERATURE CONTROL

WATER MANAGEMENT

AIR HANDLING UNITS

ENERGY DASHBOARD

BUILDING ENERGY MANAGEMENT SYSTEMS

HOME AUTOMATION

DATA ANALYSIS

HEAT COST ALLOCATORS

The **Coster** allocation system supports home and condominium economy.
It provides the ability to independently adjust heating for each apartment, allowing the users to only pay for their own consumption.
Offices or living spaces are free to set independent temperatures. Different demands across spaces and time require specific solutions: Coster grants its customers freedom, savings and functionalities, in all moments and places.

The system is a group made up of a **Data Concentrator** and a number of **Heat Cost Allocators** and **Signal Repeaters**. The system applies to a building, a block of flats or part of it (stairs). The boundaries of the system are dictated by the radio coverage, the number of components and by the management/administration logic.
The logical entities, or housing units, are identified within the system, by associating of Heat Cost Allocators that refer to the same apartment or office.

components

HEAT ALLOCATOR   **RPC301/311**

DATA CONCENTRATOR **UCD708**

SIGNAL REPEATER **RTR 301**

RECORD

OPTIMIZE

MONITOR

BOILER & BURNER AUTOMATION

Efficient modular controllers designed for boiler and burner control

- Temperature control and sequencing of up to 24 boilers.
- Stand alone control or linked to Coster's FOC Telemanagement software via our C-Bus protocol.
- Sensor information exchange between controllers via our C-Ring Protocol.
- Easy connection to slave controllers to build up a complete control system.

HEATING

A comprehensive range of primary, zone, and district heating modular controllers.

- A complete range of both Coster Telemanagement ready and stand alone controllers.
- Compensating and self learning optimising controllers for use with single and multiple heating zones.
- Digital input alarms that are easily managed via our FOC Telemanagement software either locally or remotely via our C-Bus protocol.

THERMOSTATIC MIXING VALVES

A full range of thermostatically controlled Hot Water valves.

- 15mm up to 50mm pipe sizes available.
- Self contained electronic temperature control with user defined set point between 30-70°C.
- Automatic Anti-Legionnaire disease thermal shock function to ensure sterilisation of the secondary Hot Water system without the need for chemical dosing.
- Digital outputs for common fault and Anti-Legionnaire disease function that can be linked into a BMS.

COSTER

CONTROLLERS & INSTRUMENTS FOR VARIOUS USES

A selection of miscellaneous controllers.

- Data loggers for temperatures, 0-10 volt, active signals, status etc.
- Convertors to change 3 wire (power to open, power to close) signals to either 0-10 volt or 4-20 mA.
- Automatic pump changeovers.
- Step and sequence controllers.
- Electronic thermostats with high / low alarms.
- Zone temperature and time controllers.
- Solar panel controllers.
- Swimming pool controllers.
- Convertor cables to change from switched live signals to digital signals.
- A range of data logging controllers to record such values as temperatures, digital signals, 0-10 volt, 4-20mA etc.

AIR CONDITIONING

Modular controllers for full control of Air Handling Units and Ventilation systems.

- Control of heating and / or cooling coils, either single or multiple.
- Control of air dampers in AHUs or ventilation systems.
- Mechanical frost protection thermostats.
- Differential air pressure switches.

GAS SAFETY

A complete gas safety system from COSTER.

- Gas safety valves, from 15mm up to 100mm in stock, auto and manual reset versions.
- 12, 24 or 230 volt versions.
- Zoned gas detection from 1 to 12 zones.
- Any number of zones can be covered by our modular system.
- A range of both domestic and industrial type sensors.
- Detection of CO, LPG and Natural gas stock items but other gases can be supplied.
- Connection to any BMS system via voltage free relays for alarm active functions.
- Calibration service available upon request.
- A range of accessories such as beacons, emergency knock off buttons and thermal links.

COSTER

ENERGY METERING

A range of metering equipment for measuring energy consumption.

- Measurement of heating, cooling, hot water, cold water, electricity, gas and run hours.
- Compliance with EN 1434 standard.
- Data readouts can be obtained either locally or remotely via telemanagement software.
- Capacity to record and log consumption data over a 52 week period.
- A range of pulsed output water flow meters from 15mm - 200mm.

VALVES AND ACTUATORS

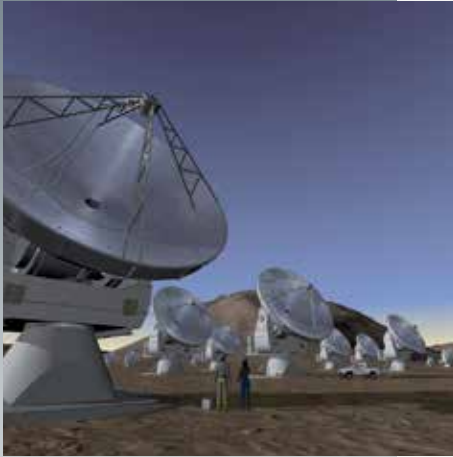Valves and actuators for all types of HVAC solutions.

- Slipper valves for mixing valves in heating systems.
- Ball valves for hot water production plants
- Linear valves for AHU and chilled water systems.
- 2, 3 and 4 port valves for fan coil units.
- Electrically operated radiator valves.
- Valves suitable for temperatures up to 200°C.
- Actuator run times from 30 to 630 seconds.
- 12, 24 or 230 volt versions in stock.

SENSORS REMOTE CONTROLS AND MISCELLANEOUS ACCESSORIES

All the sensors and remote control options you need for the COSTER controllers.

- Ambient air sensors for wall or duct mounting.
- Room sensors for wall or duct mounting.
- Water flow sensors for immersion or clamp on.
- Remote control units for a wide variety of controllers to adjust temperatures, programmes etc.
- Humidity sensors for room or duct mounting.
- Level indicators.
- Water loss detectors for sensitive areas or plant rooms

COSTER

TELEMANAGEMENT SYSTEM
"TELECOSTER" INSTALLATIONS

All you will need to manage a site either locally or remotely at a fraction of the cost of a traditional Building Management System (BMS).

- Coster SWC 701 Telemanagement software (free)
- A range of pre configured modems - desktop, USB and panel mounted versions.
- Communications via Internet (with local SWC web server), Intranet, landline or GSM.
- Full controls strategy and graphics service available from Coster.
- Alarm management with forwarding via voice message, SMS text message, E-mail or third party programs.
- Data management direct from SWC 701 software or by exporting in standard formats to other programs such as Windows™ Excel™ or Word™.

COSTER, an Italian company founded in 1967 and engaged in the field of energy control, offers solutions for the automation, control and management of heating and air conditioning sites.

All the solutions have been studied and executed on the basis of advanced technology and know-how and can meet the requirements of even the most exigent customer.

The lifeblood of **COSTER** is its "Research & Development" activity which, on the basis of the latest technological advances, develops and manufactures temperature control systems in its modern factory at Edolo (Brescia province). COSTER has offices in Milan and Rome with an office in Derby for the UK market.

COSTER supplies complete distributed intelligence control systems, for the production and distribution of thermal energy for heating/cooling inside buildings, ranging from small one-family dwellings to large office blocks. If required, the systems can incorporate any specific customer requirements.

made in Italy

COSTER TECNOLOGIE ELETTRONICHE S.p.A.

Head office and sales
via San G.B. De La Salle, 4/a 20132 Milano
Tel. +39 02 2722121 Fax +39 02 2593645
info@coster.eu   www.coster.eu
export.dept@coster.eu

Branch in UK
COSTER T.E. UK BRANCH
5 Shaftesbury Street South, Sir Francis Ley Industrial Park - Derby DE23 8YH
Tel. +44 (0) 1332 200555 Fax +44 (0) 1332 204181
ukbranch@coster.eu