

# CONTROLLI

## Products and Solutions for HVAC-R



# COMPANY PROFILE

... **1936** Controlli company was established in 1936 and remained an Italian company for 60 years.

... **1996** From 1996 to 2011 Controlli became part of large multinational Groups (Invensys Plc and then Schneider Electric SA)

... **2011** In August 2011 Controlli became again an independent Italian company.

**CONTROLLI is recognised as an Italian leader in the Building Automation market and a benchmark in the segment of valves and actuators for the HVAC-R market.**

**Robotized machineries are used for manufacturing, assembling and testing. Products are tested 100%.**

**Controlli head office and factory (6000 sqm) are located in Genova, Italy.**





# CORE BUSINESS



## VALVES & ACTUATORS

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We are proud to offer one of the largest range of valves and actuators in the HVAC-R market. Valves range from 15mm to 200mm for fluids with temperature from -20°C to +350°C, max. pressure 12bar (steam) or 30bar (water). Linear actuators start at 90N and go up to 3000N. Rotary actuators for butterfly valves and shoes valves and for direct mounting on air dampers up to 2sqm.



## SENSORS & CONTROLLERS

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To start with, we will mention our thermostats for heating and cooling, our fan-coil units controllers, room controllers, ddc controllers with parameter-setting as well as web server programmable controllers. Controllers are offered either as stand-alone or with ModBus connectivity. Our range includes sensors, transmitters and switches for temperature, humidity, pressure, differential pressure, air quality, etc.



## SUPERVISORY SYSTEMS

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To make matters easy, we propose pre-programmed GT (graphic terminals) touch-screens, with web Server capabilities for remote monitoring through Internet Explorer. GT touch-screens are supplied ready for most of our controllers (W500, OmniaPro, Liberty). One GT is suitable to approx. 40 controllers at one time.



## HEAT METERING & MORE

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Last but not least, we are continuously improving our range for heat metering systems, heating costs allocator units, variable speed drives, solutions for underfloor systems and more.



# LINEAR ACTUATORS FOR GLOBE VALVES

## MVE

### NEW GENERATION ACTUATORS WITH BRUSH-LESS MOTOR AND MICROPROCESSOR

Up to 500 positions between fully closed to fully open  
600N to 2200N force  
3 pos. & Proportional control (0-10Vdc, 2-10Vdc, etc.) in one PCBA  
Self stroking and self calibrating  
Self diagnostic functions  
Modulating versions also available with 230Vac power supply

### MORE OPTIONS

Emergency fail-safe function with super-capacitor  
Insulation protections for outdoor installation  
Adjustment of the valve maximum stroke  
Linkage kits to motorize valves from other manufacturers and download diagnostic information  
Software for OEMs for changing our factory settings

**OUR RANGE OF LINEAR ACTUATORS INCLUDES  
MODELS FROM 90N TO 3000N FORCE**



# CONTROLLI GLOBE VALVES

**A bench-mark in control valves for the HVAC-R market!**

### MATERIALS FOR ALL NEEDS

Brass – Bronze – Cast iron – Nodular Iron – Steel – Stainless steel

### SIZES

Threaded connections from 1/2" to 2"  
Flanged connections from DN15 to DN200  
Kvs from 0.25 to 500  
Valves with grooved connections suitable to Victaulic clamps **NEW**

### PRESSURE RATING

PN16, PN25, PN40  
High close-off ! Up to 30bar water and  
12bar steam

### MANY APPLICATIONS

For fluids from -20°C to +350°C

### ONE STOP SHOP

Globe valves, Ball valves, PICVs, Butterfly valves, Radiator valves and more





# AN EXTENSIVE SELECTION OF CONTROL VALVES



## MICRA® MOTORIZED VALVES FOR FCUs

- 2way - 3way - 3way with bypass
  - Up to Kvs 6
- For electro-thermal and electro-mechanical actuators



## GLOBE VALVES WITH THREADED CONNECTIONS

- 2way - 3way
  - 1/2" ÷ 2"
- From -10°C to +150°C



## MOTORIZED BALL VALVES

- 2way - 3way
  - 1/2" ÷ 2" tight shut-off
- From -10°C to +130°C



## PICVs

- Dynamic pressure independent control valves
  - From 1/2" to DN150
- Adjustable max. flow



## STAINLESS-STEEL VALVES

- 2way - 3way
  - AISI316 valve body
  - AISI316L internal parts



## MOTORIZED BUTTERFLY VALVES

- PN16 butterfly valves
  - Tight shut-off
- DN25mm to DN200mm



# ROOM CONTROLLERS

## ENERGON NR9000



### POWERFUL

The controller can manage up to 20 control points and 2 different communication protocols with a compact hardware.

### USER-FRIENDLY

It is field configurable by means of micro switches and it can be supervised through the web without the need of any installed software or App.

### FLEXIBLE

It fits all the control strategy of the last generation Fan-Coils with EC motor.

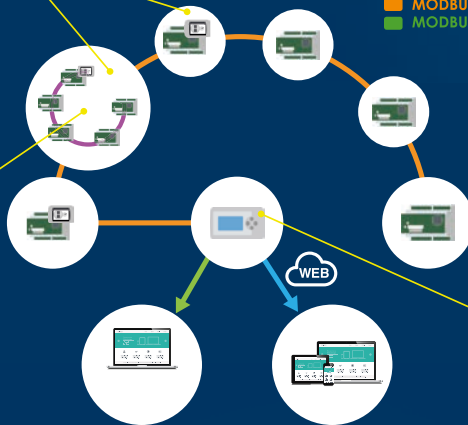
### ATTRACTIVE

The room sensor is available in two different colors and is compatible with finishing plates Biticino and Vimar.

Different model of room sensors are available: Only air probe, probe + setpoint adjust, probe + manual setpoint setting, multi-functional sensor display

LINKBUS CONNECTION 2 WIRES CABLE  
MODBUS CONNECTION RS485  
MODBUS TCP/IP ON ETHERNET

Thanks to link bus connection you can provide: 5 max slave controllers that can be managed with 1 controller and 1 multifunction room display user as Master.

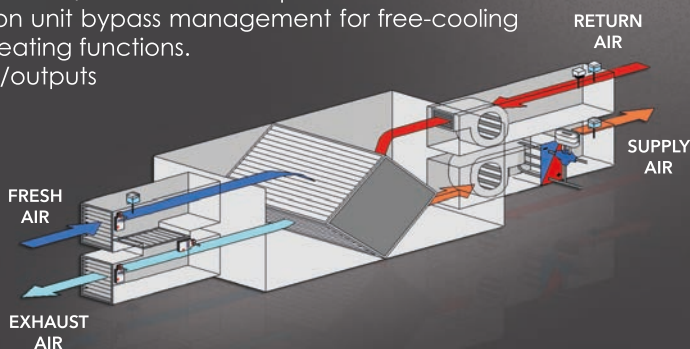


MT-NET-PONR allows connection and monitoring, up to 50 NR controllers through a remote web server interface on your Pc, tablet and smartphone.

# CONTROLLERS FOR ENERGY SAVING VENTILATION UNITS

## ENERGON NR9002

Compact controller for DIN rail mounting (6 modules) field configurable with dip-switches setting. ModBus RTU, Power Supply 85-265Vac. Suitable to several types of heat recovery ventilation units with different management of intake air / supply air / extract air / exhaust air dampers. Ventilation unit bypass management for free-cooling or free-heating functions. 20 inputs/outputs





# CONTROLLERS AND SOLUTIONS FOR HVAC SYSTEMS



## DIGITAL PID CONTROLLERS

9 Inputs/Outputs, scalable up to 36 I/Os for Temperature and Humidity (and Pressure) control



## SENSORS AND SWITCHES

For temperature, humidity, pressure, differential pressure, air quality

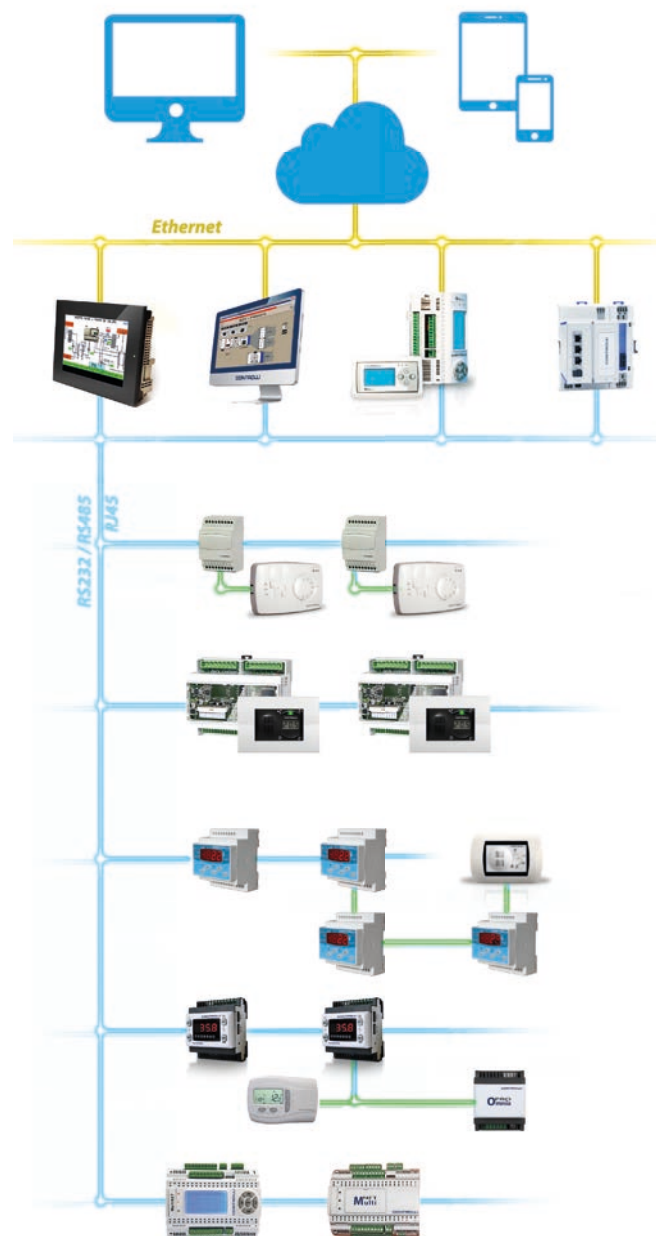


## HEAT METERS

- **BTU METERS** (compact, multijet, Woltmann, ultrasonic) up to 250m<sup>3</sup>/h
- **CONTROLBOX** our turn-the-key panels ready for installations
- **SHARE** innovative heating cost allocator units



## REMOTE MONITORING SYSTEM



## PROGRAMMABLE CONTROLLERS FOR SMALL APPLICATIONS

- Freely programmable controller
- Expansion module, multifunction room display with T+H
- Up to 38 I/Os, Large HVAC functions library



## PROGRAMMABLE CONTROLLERS FOR LARGE APPLICATIONS

- Freely programmable controller up to 12 Expansion modules, more than 300 I/Os
- Modbus over Ethernet, CanOpen, Web server
- Large HVAC functions library



## PROGRAMMABLE CONTROLLERS WITH BACNET PROTOCOL

- C-line controller: up to 80 I/Os managed, web supervising
- S-line controller: modular architecture, up to 500 I/Os,
- TCP-IP over 2 wires, up to 3 Ethernet RJ45, web supervising



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