COMM. CODE	ORDER CODE
IEC-9-EDGE-BC	IEC09

ModBUS | Ethernet | Monitor | 18-36VDC | IP30 | Class VIII 5% | OPC UA server | EasyBUS | MQTT | Haystack | FIN framework

IEC9 DDC (Direct Digital Control) controller freely programmable-DUAL OS-FIN FRAMEWORK EMBEDDED

- ADVANCED BMS functions thanks to the FIN Framework
- Advanced 3D graphics
- Multiple protocol support: BACnet, ModBUS, KNX, OPC-UA, MQTT
- Suitable for civil and industrial use
- FIN integration with local and remote resources from the world of ICON
- Secure remote management via the Edge2Cloud app and the WEB portal using AWS, with no need for a VPN

Created for the local or remote management of medium to large plants through the I/Os and the interoperability offered by the FIN connectors, thus allowing for the management of complex systems. All the local I/O control logic is managed by the M4 core operating on an Real Time OS compatible with the ICON controllers' programs. Thanks to a powerful Quad Core Cortex M53 operating at 1.6 GHz, the FIN framework is able to work extremely efficiently, using all the communication ports rendered available by the IEC9 controller (3 Ethernet ports, and 2 RS485 ports). IEC9 has a dedicated port for direct connection with a 4G-LTE model (IMDM4G-HS). Thanks to this feature, with simpler systems there's no need to use an external router for remote management, since this controller is also capable of providing routing functions to external devices. WiFi connectivity (with integrated antenna) is available both in terms of both HotSpot functionality and access to the network infrastructure. The controller is also equipped with an internal WEB server.

APPLICATIONS

- Remote monitoring
- HVAC/electrical monitoring
- Building Management System
- Lighting
- Water mains

CERTIFICATIONS

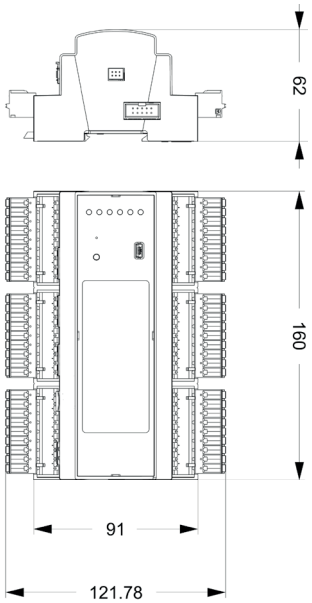
2006/95/EC; 2004/108/EC; EN60730-1:2011; EN60730-2-11; EN50491-3:2010; EN50491-5-2:2011

ACCESSORIES

RAL01, IGW02, INI01, INI02, INI03, INI04, INIOS, INI06, IREM10-30-50-60-70-80, IREMMBUS (I/O expansion modules)

BMS FUNCTIONS

The controller is suitable for managing BMS structures equipped with interoperability with third-party devices and integration with scada systems through ModBUS RTU and over a TCP/IP protocol



TECHNICAL CHARACTERISTICS

GENERAL SPECIFICATIONS	- 4xArm CortexA53@1.6GHz + 1x Arm Cortex M4@400MHz; - 1 Gbyte RAM LPDDR4; - 8 Gbytes eMMC; - RTC and battery backed RAM (2 years without power supply).
I/O	**Native mode** - 8 multifunction analogue inputs (PT100, PT500, PT1000, NI1000 PTC, NTC 20K, NTC 10K, 0-5V, 0-10V, 0-20mA); - 4 Analogue outputs (0-5, 0-10 V, @ 30mA); - 16 opto-isolated digital inputs; - 8 Digital outputs Low Side HITFET 600 mA @42V (protected against overloads and overheating).
CONNECTIVITY	- Three 100 Mbit Ethernet Ports; - Type A USB port; - USB local programming port; - 2 RS485 ports; - 1 Port for a 4G-LTE Modem (USB or RS232); - WiFi
USER INTERFACE	- USER button; - 6 LED indicators; - RGB Colour Display LCT TOUCH 3.16" (320X820pixel) (OPTIONAL)
MODELS AND FUNCTIONS	- IEC9 Standard; - IEC9HMI with TOUCH SCREEN LCD
POWER SUPPLY	Direct current (18 - 36VDC) Power Fail 10VAC

REGOLA

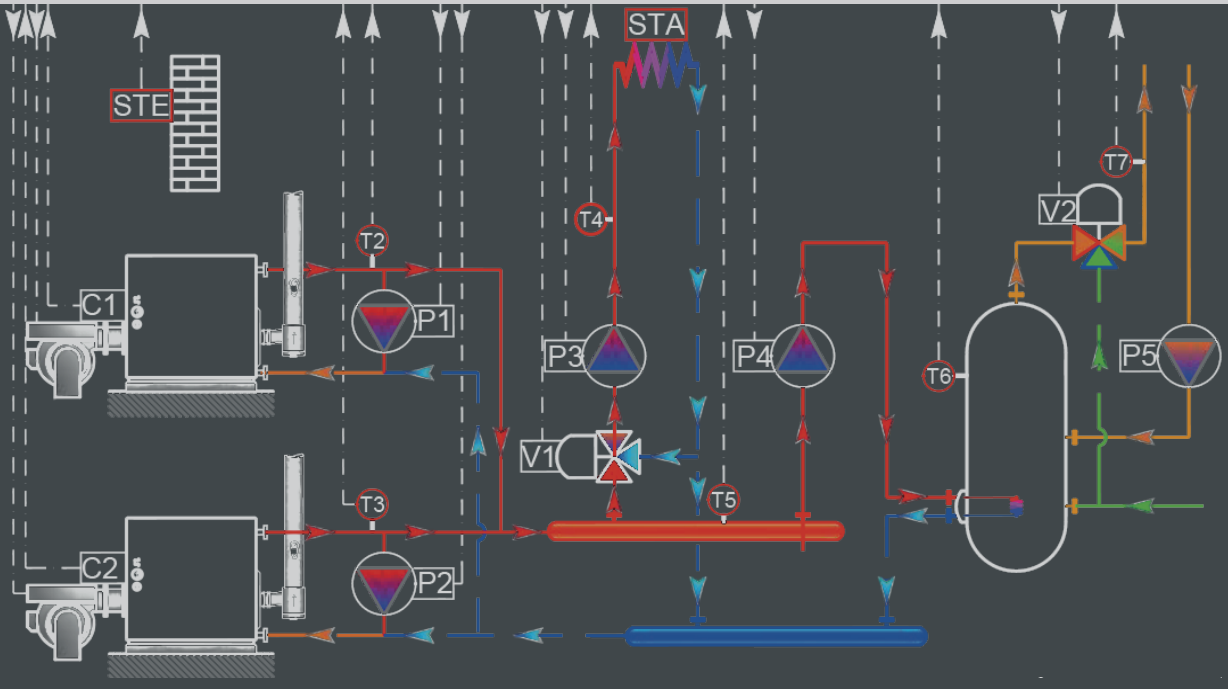
Smart Building

The building is intelligent when it is able to optimally manage energy and provide the best possible comfort to those who live there.

Regola is the new App for configuring Intellienergy controllers, dedicated to building management.

Through WiFi connectivity you can transfer one of the configurations downloaded from the Cloud to the building controller.

The scalability and granularity of the products will allow you to manage all HVAC systems, the integrated room controllers will allow you to manage:

- regolazione HVAC
- regolazione ACS
- regolazione illuminazione
- controllo accessi ed occupazione
- analisi e gestione carichi
- contabilizzazione energia
- gestione allarmi
- sistemi wireless monitoraggio ambientale

AUTOMATION WITHOUT PROGRAMMING