COMM. CODE	ORDER CODE
ICON50	ICC33
ICON50E	ICC34

APPLICATIONS

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

CERTIFICATIONS

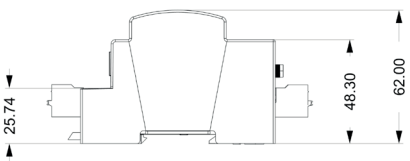
2006/95/EC, 2004/108/EC;
EN 60730-1:2011;
EN 60730-2-11;
EN 50491-3:2010;
EN 50491-5-2:2011

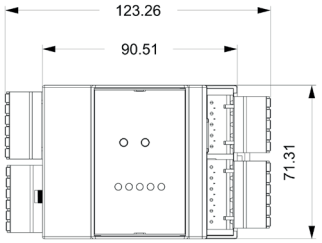
REQUIRED ACCESSORIES

RAL01,
RAN10,
IGW02,
IREM10-30-50-60-70-80, IREMMBUS

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





RTU 2xRS485 | Monitor | Ethernet | 4G LTE | 18-36 V | IP30 | Class VIII 5% | Wireless

ICON50 DDC (Direct Digital Control) controller freely programmable

- BMS functions for Building Automation
- Suitable for industrial use
- ModBUS RTU server and TCP-IP over Ethernet
- Interoperability with third party systems

The unit consists of a freely programmable DDC (Direct Digital Control) controller. It can be programmed using the **FLOWER** platform's integrated tools and the **BAOBAB** local configuration tool. Like with the other members of the **ICON** family, the controlled system's operating logic is obtained through the use of optimised and ready-to-use graphic objects, and through the use of a BASIC-LIKE text language. With regard to climatic regulation, the controller was created for the remote management of small systems, where a limited number of I/O capacities are required, but without compromising on energy performance optimisation. Although limited, the I/O equipment still makes it possible to manage several distinct thermal circuits, reserving each one its own operating modes, operating calendar, and output commands. The climatic regulation functions are obtained through both PID logic and fuzzy logic functionality. There are also adaptive functions for optimising comfort times. In a more general sense, the **ICON50** serves as a simple and comprehensive remote control and management tool. In terms of monitoring, the presence of the RS485 port, which can be set as a Master or Slave ModBUS (RTU), allows the user to interface with all the instruments that utilise this protocol, including the Wireless probe system.

TECHNICAL CHARACTERISTICS

MODELS	- **ICON50**: Standard - **ICON50E**: Without modem
GENERAL SPECIFICATIONS	- 538 MHz ARM® CORTEX®-M7 Processor, - 4 + 32MBit Q_Serial Data Flash memory, - 1Mbytes static RAM + 32Mbytes Dynamic RAM, - 128 KBytes RAM Backed up lithium (Automatic backup to Flash), - Date clock with 10 ppm lithium battery, - S.O. Real time multitasking
OPERATING TEMPERATURE LIMIT	-40 ... +85 (°C)
I/O	Each model provides 12 I/O points • Native modes IA 2, UA 2, ID 4 , UD Relay 4 • User modes IA 0-4, UA 0-2, ID 4-8 UD Relay 4-6 (2 external)
CONNECTIVITY	- GSM/GPRS/4G-LTE CAT1 Modem (B1/B3/B5/B7/B8/B20), - 100 Mbit Ethernet, - WiFi IEEE802.11 b/g/n protocols (Temporary Hot Spot), - 2xRS485 R-NET/MODBUS, - 1 mini USB port, - LAN, ASDL, Web interface
USER INTERFACE	The controller's status is indicated via 5 LED indicator lights; the model equipped with a WiFi port allows a Smartphone or Tablet to be used as a user interface.
EXPANDABILITY	The controller is equipped with two RS485 ports. One is used for the management of expansion modules, the other can be used as a MASTER/SLAVE ModBUS RTU.
POWER SUPPLY	24 VDC +/- 20% - Consumption 200 mA.

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