



COMM. CODE	ORDER CODE
<b>ICON100</b>	<b>ICC37</b>
<b>ICON100P</b>	<b>ICC38</b>
<b>ICON100S</b>	<b>ICC39</b>
<b>ICON100M</b>	<b>ICC41</b>

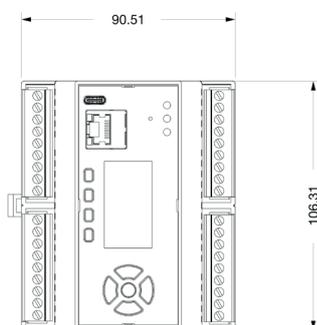


APPLICATIONS
Remote monitoring
HVAC/electrical monitoring
Building Management System
Lighting
Water mains

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

ACCESSORIES
RAL01, IMDM02, IMDM-4G, IGW02, IREM10-30-50-60-70-80, IREMBUS

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



## ICON100 DDC (Direct Digital Control) CONTROLLER freely programmable

- BMS functions
- Suitable for industrial use
- ModBUS TCP/IP-RTU server
- Interoperability with third party systems

Created for the local or remote management of small to medium-sized systems. The multifunction I/O equipment nevertheless 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. The **ICON100** controllers are equipped with an RS485 port, which can be configured as a Master or Slave ModBUS (RTU), or as an expansion port for the **IREM** expansion modules. Thanks to the connectivity via 100Mbit Ethernet, WIFI (always present), and GSM/GPRS/4G LTE CAT1 (available thanks to the direct plug-in modem **IMDM02/08**), these controllers are suitable for managing both advanced BMS structures and geographically distributed systems.

### TECHNICAL CHARACTERISTICS

<b>GENERAL SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>- FLASH memory (4) Mbytes;</li> <li>- System memory 32 Mbytes SDRAM SDR;</li> <li>- RAM DISK: 512Kbyte lithium battery backed RAM;</li> <li>- Date clock with lithium battery and automatic switching between standard and daylight savings time. Accuracy 10 ppm;</li> <li>- 32Mbytes Serial Data Flash;</li> <li>- S.O. Multitasking, Real-Time;</li> <li>- 128x64 pixel LCD graphic display.</li> </ul>
<b>I/O</b>	<p><b>Native mode</b></p> <ul style="list-style-type: none"> <li>- 8 multifunction analogue inputs (PT1000, NI1000 PTC, NTC 20K, NTC 10K, 0-10V);</li> <li>- 4 analogue outputs (0-5V, 0-10 V, @ 30mA);</li> <li>- 2 digital inputs predisposed for fast counting;</li> <li>- 6 MOSFET 600 mA @ 42V digital outputs.</li> </ul> <p><b>User mode</b></p> <ul style="list-style-type: none"> <li>- 0-12 Analogue inputs;</li> <li>- 0-4 Analogue outputs;</li> <li>- 2-14 Digital inputs;</li> <li>- 6-10 Digital outputs.</li> </ul>
<b>CONNECTIVITY</b>	<ul style="list-style-type: none"> <li>- RS485 port for connection with <b>IREM</b> expansion modules or for ModBUS RTU</li> <li>- USB Type C local programming port</li> <li>- 100 Mbps Ethernet port</li> <li>- WiFi IEEE802.11b/g/n</li> <li>- GSM/GPRS/4G LTE CAT1 with direct connection modem</li> </ul>
<b>USER INTERFACE</b>	<ul style="list-style-type: none"> <li>- LED backlit 128x64 pixel LCD graphic display;</li> <li>- 4 Function keys;</li> <li>- 5 Menu navigation keys.</li> </ul>
<b>MODELS AND FUNCTIONS</b>	<ul style="list-style-type: none"> <li>- <b>ICON100</b> Standard;</li> <li>- <b>ICON100P</b> With a second RS485 port added;</li> <li>- <b>ICON100S</b> With EasyBUS port for connecting digital probes and user panels (max 300m);</li> <li>- <b>ICON100M</b> With MeterBUS port (for up to 16 devices).</li> </ul>
<b>EXPANDABILITY</b>	RS485 port that can be configured to manage <b>IGW02</b> radio gateway I/O expansion modules, or else as a ModBUS RTU. The 100S model allows for the connection of 32 digital probes. The 100M model offers a MeterBus port, up to 8 metres.
<b>POWER SUPPLY</b>	24 VDC +/- 20% - Consumption 200 mA@24V.



# 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

