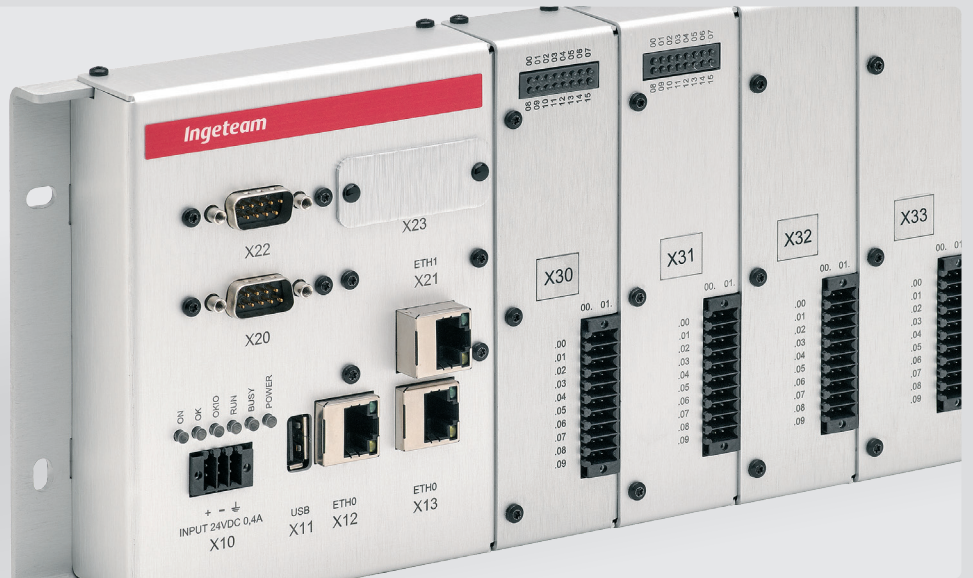
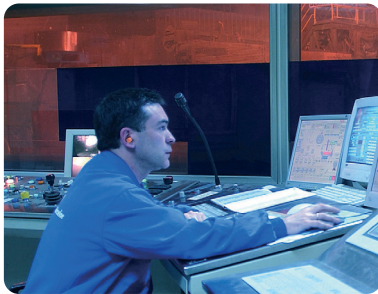


# INGESYS

# IC2

## Programmable Automation Controller



INGESYS™ IC2 is a control system designed to meet the automation demands present in different sectors such as energy, industry, railways, etc.

Its compact internal structure together with a wide range of digital and analog input/output modules make it possible to offer a technical solution suited to each application at an optimum cost.

### Compact control solution

It has two possible architectures depending on the application: a compact architecture designed for controlling applications with a low number of inputs and outputs, and limited space, and a distributed architecture with I/Os distributed via standard field buses.

It includes a wide variety of standard communication interfaces used in the industrial sector (RS232, RS485, Ethernet, CAN, Profinet, etc.) as well as protocols (MODBUS RTU, MODBUS TCP, ETHERNET IP, PROFINET I/O, CANOPEN, etc.), which permit their integration into the communications networks most commonly used on the market.

It also offers the possibility of working as an RTU in distributed applications offering the most extensive protocols in this applications field.

It provides the user with programming tools which are compatible with the IEC61131-3 standard as well as the option to program in C/C++ and Matlab®/Simulink®. A comprehensive functions library (mathematical, regulation, data filing, communications, etc.) helps the user develop the application.

The integration of a web server allows the user to diagnose and monitor the system easily and flexibly to suit their needs.

### Benefits

- ✓ Compact, robust design
- ✓ Custom-made solution with optimum costs

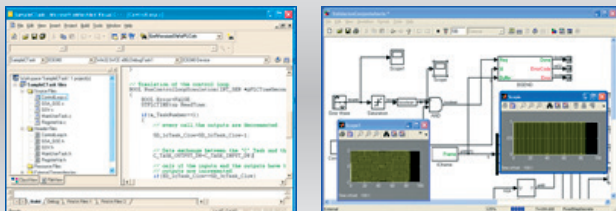
[www.ingeteam.com](http://www.ingeteam.com)  
[ingesys.info@ingeteam.com](mailto:ingesys.info@ingeteam.com)

# Ingeteam

	<b>Power Source</b>	
<b>Main Power Supply*</b>	24Vdc +/- 20%	
<b>Maximum Consumption</b>	24V @ 300mA	
<b>Dissipated Power</b>	8W (max.)	
	<b>Processor Module</b>	
<b>Processor</b>	32bit, 400MHz	32bit, Dual Core 800Mhz
<b>Memory</b>	Up to 128MB Program: 1MB Data: up to 1MB Non volatil data: 62KB	512MB Program: 4MB Data: up to 4MB Non volatil data: 128KB
<b>Programming</b>	Data logging: 32MB (up to 8GB optional)	
<b>Monitoring and Maintenance</b>	IEC61131-3 (specific functions, communication and regulation library), C/C++, Matlab/Simulink	
<b>LAN Interfaces</b>	2 x 10/100Base TX RJ45 Ethernet ports with internal switch + 1 x 10/100Base TX RJ45 Ethernet port*	
<b>Field bus interfaces</b>	Protocols: Modbus TCP/IP, Ethernet/IP, PROFINET Up to 4 ports that can be selected <sup>1</sup> per CPU: CANOPEN(Master/Slave), Profibus DP Slave, RS232/RS485	
	<b>Input/Output Modules**</b>	
<b>Digital inputs</b>	16 DI (24Vdc @ 3mA) (PNP or NPN) 8 DI (24-110Vdc) (PNP or NPN)	
<b>Digital Outputs</b>	16 DO (HSD 24Vdc @ 500mA) (PNP o NPN) 8 DO (24VDC @ 2A) 8 DO (24-110Vdc @ 1.5A)	
<b>Relay Outputs</b>	3 electromechanical Relay Outputs with switched contacts (150V @ 5A)	
<b>Mixed Digital I/Os</b>	8 DI (24Vdc @ 5mA) + 8 DO (HSD 24Vdc @ 500mA) 12 DI (24Vdc @ 5mA) + 4 DO (HSD 24Vdc @ 500mA) 4 DI (24Vdc @ 5mA) + 12 DO (HSD 24Vdc @ 500mA)	
<b>Analog Inputs</b>	8 AI ( $\pm 10V$ or $\pm 20mA$ ) 8 fast synchronous AI, up to 100Ks/s, for ( $\pm 10V$ or $\pm 20mA$ ) or IEPE accelerometers 1 AI + 4 IEPE inputs + 1 High Speed Counter 10 Temperature inputs (PT100, NTC or Thermocouple)	
<b>Analog Outputs</b>	8 AO ( $\pm 10V$ or $\pm 20mA$ )	
<b>Motor Control</b>	4 DI (24Vdc @ 5mA) + 1 Encoder input + 1 PWM output (up to 12A) H-bridge topology	
<b>Audio Output</b>	2 Audio outputs 2W	
	<b>Standards</b>	
<b>Immunity and Emission</b>	EN 61131-2:2007; EN 61000-4:2016	
<b>Temperature Range</b>	-40°C at +70°C	
<b>Vibrations</b>	IEC 61373:2007	
<b>Fire protection</b>	EN 45545-2	
	<b>Mechanical Features</b>	
<b>Assembly</b>	Panel	
<b>Material</b>	Aluminium	
<b>Dimensions (H x W x D)</b>	(149mm to 524mm)*** x 135mm x 34.6mm	

\* Optional \*\* A combination of up to 10 modules \*\*\* Depending on the number of I/O modules selected, each with a width of 37.5 mm.

Programming tools



HMI web

