

INGESYS

IC3

PLC
for process control



Applications:

Continuous process control, energy generation, distribution and transport, chemical sector, railway and marine transport, water treatment and distribution.



The INGESYS™ IC3 PLC is part of the INGESYS™ IC family of control systems, designed to meet the automation requirements of all types of applications, from the simplest to the most demanding in terms of processing capacity, performance and reliability.

Automation Systems

Power and Flexibility

Thanks to its modular, flexible character, INGESYS™ IC3 offers solutions adapted to the processing capacity and budget of each individual control application.

INGESYS™ IC3 allows you to define a wide variety of topologies with options for power source redundancy, processor units, communication networks and input/output modules.

Connectivity

INGESYS™ IC3 offers a wide range of connectivity interfaces for integration with both field devices and control and management systems, based on the most renowned industrial standards. Besides the various communication options via Ethernet and field buses, INGESYS™ IC3 offers features such as FTP support, USB ports and the ability to act as a web server.

Reliability and Robustness

INGESYS™ IC3 is specially designed to work in industrial surroundings with demanding environmental conditions. Exhaustive quality control tests and rigorous environmental and vibrational tests vouch for its reliability and robustness. INGESYS™ IC3 is UL-certified and CE-marked.

Reduced Engineering Times

INGESYS™ IC3 boasts a powerful engineering tool based on the IEC61131-3 standard. This user-friendly tool allows you to plan and program your application, thus considerably reducing engineering and commissioning times.

INGESYS™ IC3 offers additional added-value features as, integration with MATLAB/SIMULINK and the option of incorporate C tasks.

Maintenance and Diagnostics

Maintenance staff will find INGESYS™ IC3 to be a modular system which is easy to install and configure, with advanced features such as Hot Swapping (substituting elements without having to stop the process). It also comes with autodiagnosics tools for rapid error detection, significantly reducing the number of stoppages as well as repair times.

Direct Customer Support

All of the products developed by Ingeteam provide client training and a direct customer support service offered by highly-qualified, dedicated personnel.

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Ingeteam

	IC3
Technical data	
Microprocessor	Power scalability: Pentium 500MHZ (800DMIPS) and ARM 400MHZ (500DMIPS) compatible processors
Program memory	Integrated (Up to 10MB flash)
Removable memory	Up to 2GB compact flash memory
RAM Memory	Up to 5MB RAM memory
NVRAM memory	62KB non-volatile RAM memory
Run-time system	Up to 10 tasks
PLC cycle time	1ms for over 60,000 instructions, depending on application code (without I/O cycle)
Module capacity	Up to 256 I/O modules
Ethernet communications	TCP/IP, Modbus TCP, FTP, webservices, SNMP, IEC 61131-5, IEC 61850, IEC 61850-7-410, IEC 61400 -25, IEC 60870-5 -101/104
Field Buses	Modbus RTU, Profibus, Interbus-S, CANopen, Ethercat
Programming languages	IEC 61131-3, C/C++, Matlab/simulink
Function libraries	General, Logical, Analysis and Digital processing, Regulation, Data Logging and Communications
Temperature range	From 0°C to 60°C without force-air cooling. Cold temperature variants (from -30°C to 70°C)

