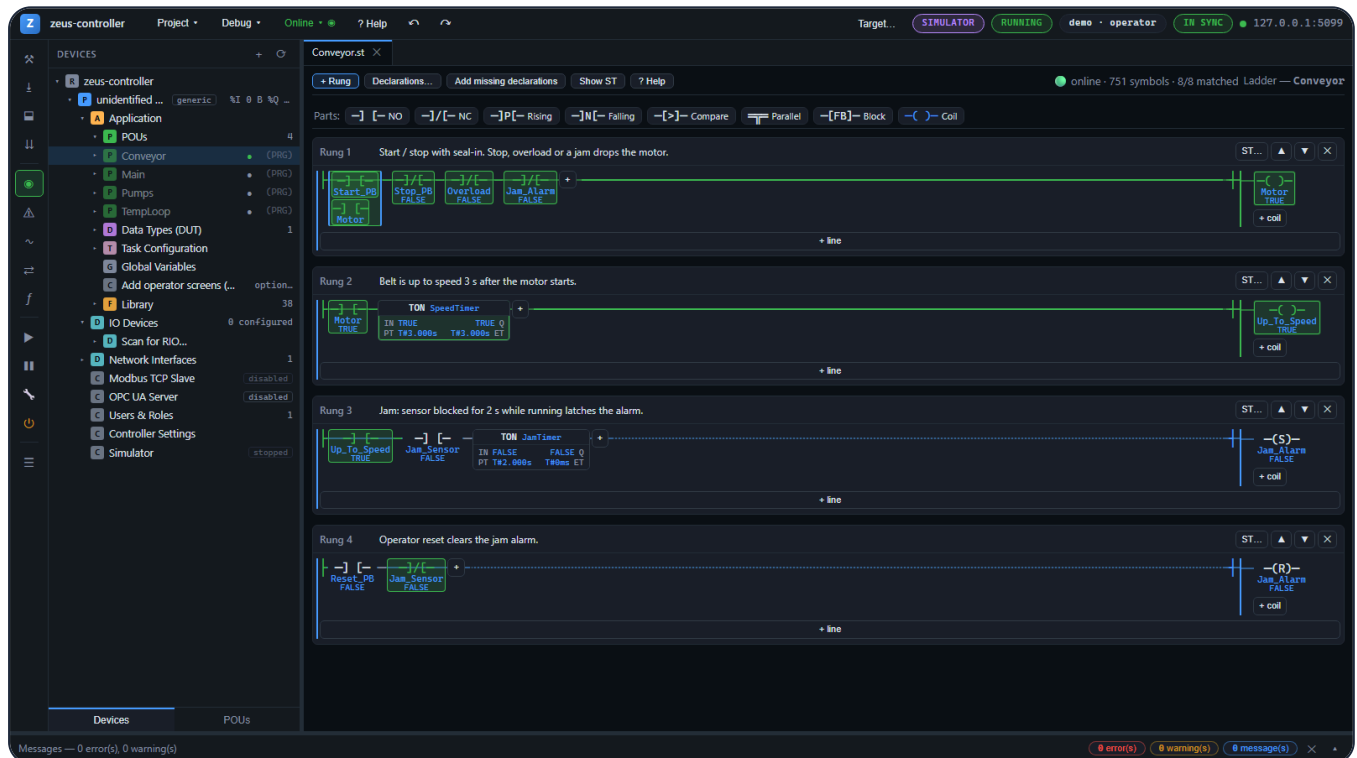


Zeus PLC IDE

The native runtime and engineering environment for the Zeus PLC IPC-CM400200

Program, simulate, download and monitor the controller from one self-contained Windows package — with no runtime licence to buy per controller, and direct integration with OptiZeus SCADA.

- ✓ Structured Text, graphical Ladder and SFC — IEC 61131-3
- ✓ Built-in simulator running the real Zeus runtime
- ✓ Online monitoring with write and force
- ✓ EtherCAT, Profinet, Modbus TCP, OPC UA and tags by name



Online with the controller: live power flow through a conveyor program — seal-in, speed timer, jam latch and reset.

Everything an engineer needs — nothing to install

Nothing to install

Unzip and double-click. Editor, compiler and simulator in one Windows package.

Three IEC 61131-3 languages

Structured Text, graphical Ladder and Sequential Function Charts.

Built-in simulator

Run the real Zeus runtime on your PC before the hardware arrives.

Online monitoring

Watch tables, prepared values, write and force, live values on hover.

Data types (DUT)

STRUCT, ENUM and alias; copy whole records; paste most Codesys DUT text.

Function block library

Scaling, PID with auto-tune, motors, valves, HVAC, ISA-88, IO-Link.

Multi-task

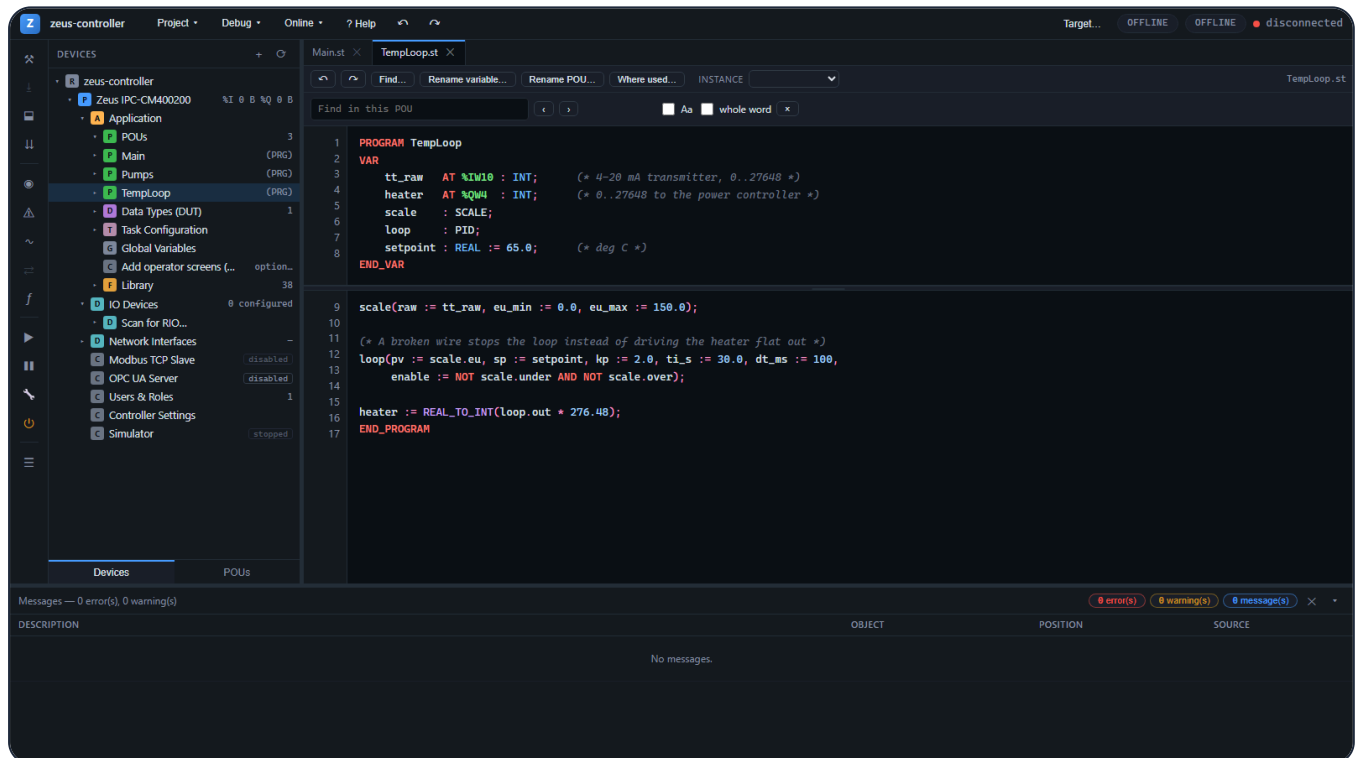
Several programs per task, in order, every scan — with core assignment.

Rack from vendor files

Import ESI / GSDML, scan the network, name channels with aliases.

Engineer-friendly editing

Multi-step undo, find, where-used and project-wide rename.



Structured Text editor: declarations and body side by side, syntax colouring, find, rename and where-used.

NATIVE RUNTIME

An advanced runtime on the controller

Fieldbus

EtherCAT master with modular couplers · Profinet IO controller with DCP · Modbus TCP client and server

SCADA & HMI by name

OPC UA server with a folder per instance · CompactLogix-style EtherNet/IP tag server — no register mapping

ISA-18.2 alarms

Up to 10,000 alarms · acknowledge, shelve, suppress, out of service · journal of who and when

Retain & power-fail save

Retained values survive restarts · clean save-and-shutdown on supported carriers

Security

User roles and login lockout · dedicated service account · protected configuration

Output fault policy

Per device: clear or hold physical outputs on STOP and on FAULT

RUNTIME OPTIONS

One controller, two ways to run it

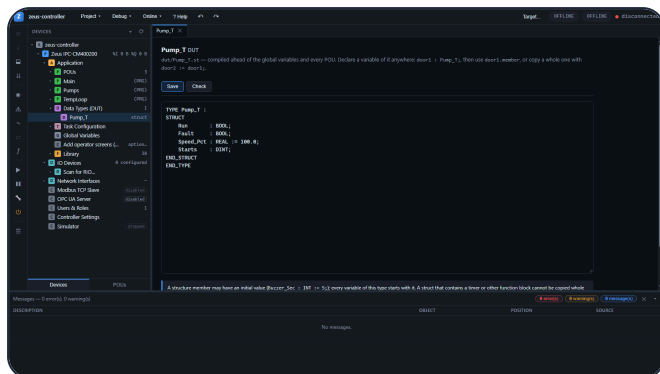
Every IPC-CM400200 can be delivered with the Codesys V3.5 runtime or with the native Zeus runtime and the Zeus PLC IDE. Same hardware, same I/O — choose the software that fits your team and your project.

	Codesys V3.5	Zeus Native Runtime
Runtime licence	Per controller	Included — no per-unit fee
Engineering tool	Codesys development system	Zeus PLC IDE, self-contained
Languages	ST, LD, FBD, SFC, IL, CFC	ST, LD, SFC
Simulation	Codesys simulation mode	Built-in, runs the real runtime
SCADA integration	OPC UA	OPC UA + tags by name (EtherNet/IP)
Alarms	Alarm manager	ISA-18.2 engine, up to 10,000
Motion control	SoftMotion / CNC (licensed)	Zeus Motion — in development

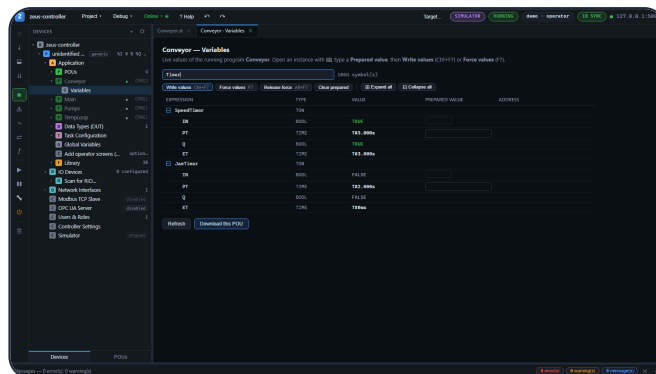
Choose Codesys when your team and existing projects already live there. Choose the Zeus runtime for many controllers without per-unit licences, and PLC, SCADA and I/O from one supplier.

SEE IT IN ACTION

Real screens, real code



Data types: define a structure once, use it everywhere.



Online variables: instances open into live members; write, force and release.

```
PROGRAM TempLoop
VAR
  tt_raw    AT %IW10 : INT;    (* 4-20 mA, 0..27648 *)
  heater    AT %QW4  : INT;
  scale     : SCALE;
  loop      : PID;
  setpoint  : REAL := 65.0;    (* deg C *)
END_VAR
scale(raw := tt_raw, eu_min := 0.0, eu_max := 150.0);

(* A broken wire stops the loop *)
loop(pv := scale.eu, sp := setpoint, kp := 2.0,
     ti_s := 30.0, dt_ms := 100,
     enable := NOT scale.under AND NOT scale.over);

heater := REAL_TO_INT(loop.out * 276.48);
END_PROGRAM
```

Example: a 4-20 mA temperature input scaled to °C drives a PID loop. The loop is disabled while the signal is out of range, so a broken wire cannot drive the heater flat out.

In development

Zeus Motion

CiA 402 servo axes over EtherCAT with PLCOpen blocks.

Controller redundancy

Two CM400200 in warm hot-standby.

Try it on your PC today

Download the Zeus PLC IDE from optizeus.org/downloads, open the example project and run it in the simulator. Then talk to us about the IPC-CM400200 with the native runtime.

optizeus.org/contact