

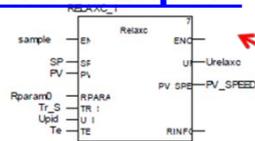
Relaxc Overview: Aim for EXCELLENCE in your processes with a Smart Process Control
With only one algorithm block: Maximize operational productivity, simplify maintenance, and optimize energy consumption.

Open your Processes to PLC Automation Worldwide

(Easy to tune, Plug & Control)

➤ **EcoStruxure™ Control Expert**

M340, M580, Premium, Momentum et Quantum. (Schneider Electric)



➤ **Straton of Copa-Data**

OEM, tools machine, Windows, Linux, VxWorks, Intime, Raspberry, Arduino, Pic ECU, ...

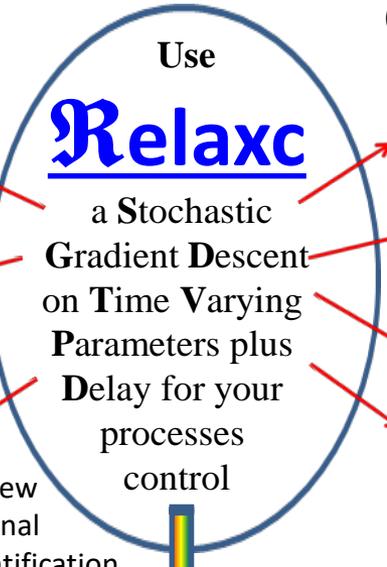
➤ **SCADA (with zenon logic)**

Relaxc allows to optimize your process and explore new Real Time fields: insert, calibrate, optimize your internal model, time varying disturbances or parameters identification.



$$\begin{cases} u_n = \mathfrak{R}(u_{n-1}, \tau_{re}) + k_s(\tau_g \dot{e} + e) \\ k_s = \frac{1}{v * \tau_g * (\frac{t_d}{\tau_{re}} + 1)} \\ e = y_g - y_m \end{cases}$$

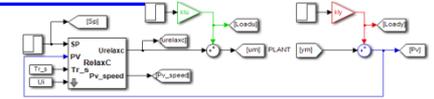
Try it now with a **Trial version** on all these platforms
 More info : [Bibliography](#), Relaxc@appedge.com



Simplify your Engineering design process:

(Plug & Design: your secure transient responses)

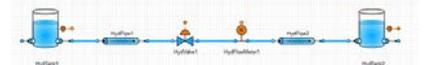
➤ **Matlab™ Simulink**



➤ **GT-Suite™**

Control quickly your heat engine. Improve performance and reduce the size of the batteries of your electric systems (vehicles)

➤ **Ecosim™**



➤ **Smart Deep & Learning machine.**

Wrap your IA in the fourth dimension. Python, C, R

Innovative solution to reduce process waste

On this basic plant, without math you can effortlessly **replace your best PID tuning with Relaxc:**

- You reduce your control waste of **80%** ($IAE = \int |e|$) on the load disturbance rejection on U and Y
- At t=0s, divide by **30** (1.2/0.04) the initial control energy peak (U) for the same time rise (14s).
- You can also take advantage to replace your advanced controllers, LQG, IMC, predictive control, etc. To **save time** (no modelling required) and **increase efficiency** of your processes.

PID Response Waste

