

# Siemens S7-300 PLC Module

Study module for PID controllers

The S7-300 PLC modules at a glance

## Sections

All sections dealing with automation, control and communication

## Highlights & Key Activities

- ✓ This module includes a PLC with advanced functions.
- ✓ PC programming
- ✓ Communication via an Ethernet link
- ✓ Integration of several PID loops to control the entire line
- ✓ Graphical interface time scale for clean and accurate plotting correct identification of systems (Broïda method, Ziegler-Nichols, ...)
- ✓ Self-tuning function to search for P, I, D parameters

## Specific components

- ✓ PLC with digital and analogue input/output cards:
- ✓ Internal and external set point variables
- ✓ Feed-forward input on PID controller calculation blocks (report, lead/lag blocks, ...)
- ✓ Communication couplers: Profibus DP; Profibus PA; Ethernet TCP/IP; AS-Interface, colour touch panel, "WinCCflexible" supervision; ...

## Main components

- ✓ The PLC used is a CPU S7-1500 from the SIEMENS SIMATIC S7-1500 range
- ✓ Ethernet TCP/IP" coupler

BTS CIRA - BTS ME - Bac Pro Me

## Grandes thématiques

Control - Servo control Instrumentation  
Measurement - Maintenance



## References

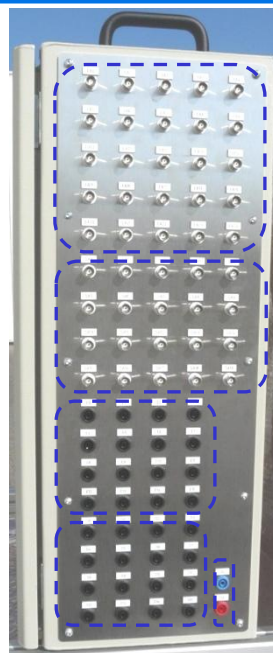
- ✓ RC31: PLC Module with PID and Touch Panel (S7-1500 version with 8E/8S On/Off + 24 EANA of which 4 HART - 20 SANA + Ethernet TCP/IP)
- ✓ RM13: Option - 0/4-20 mA Current Loop Calibrator

## Features

- ✓ L/ W/ H: 520x510x310 mm
- ✓ Electrical energy: 230 V single phase
- ✓ Weight: 20 kg



Left view



Right view