

 <b>SOLARIS</b> <small>NATIONAL SYNCHROTRON RADIATION CENTRE</small>	SOLARIS Standards & Recommended Practices	
	<b>STANDARD ELEMENTS</b>	Page 1 of 1
		Date 2025-05-23
		Version: 1.1

## Standard elements in SOLARIS' Control System

- **VACUUM**
  - Gamma Vacuum LPC, SPC, MPC controllers for sputter ion pumps
  - Pfeiffer Vacuum TPG 256A, 300, 366 vacuum gauges controllers
- **DIAGNOSTICS**
  - Libera Single Pass E, Photon, Brilliance+ for BPM readout
  - BASLER Ethernet cameras
  - ELETTRA AH501 Picoammeter
  - Keithley 6482, 6517 Picoammeter
  - Kepco BOP-ME power supply
  - AlbaEM2 electrometer
  - Stanford SR570, PS300
  - CAENels TetrAMM
  - Xspress 3 family
- **MOTION**
  - IcePAP motor controller (SOLARIS standard)
  - DeltaTau Power Brick LV
  - Newport Piezo Nanopositioner Controller
  - Absolute (preferred) and incremental encoders (i.e Renishaw TONiC, RESOLUTE series)
  - 2-phase stepper motors (i.e Oriental motor, Nanotec)
- **PLC**
  - Allen-Bradley PLC
- **OTHER**
  - PandABox for scans synchronization
  - PREVAC: MG15, PCU16, BCU14, Heat3, fs40, uv40a, xr40b

For details please reference to Control System and Motion Controls Standards or contact SOLARIS.