

# WORLD OF AUTOMATION

## Exhibition program / Productcluster



### Process Automation Systems

#### Control Systems

DCS; Distributed Control Systems, Process Systems Engineering, Advanced Process Control, SCADA; Supervisory Control And Data Acquisition, PLC; Programmable Logic Controller, MES: Manufacturing Execution Systems, Process Safeguarding Systems, IPC, HMI

#### Operator Interface Systems

Control Rooms, wireless pads, displays, OTS; Operators Training Simulators

#### Process Automation Network Systems

HART, Fieldbus, PROFIBUS, PROFINET, ASI, Devicenet, ethernet systems, wireless network systems

#### Industrial Process Software

Operating systems, database systems, process scheduling systems, modelling systems, engineering systems, PDM; Product/Process Data Management, Datawarehousing, CAD/CAE, business process software, ERP; Enterprises Resource Planning, SCM, BPM, asset management systems, maintenance systems

#### Industrial Cyber Security

#### Industrial System Integration

Energy Management, Plant Asset Management, System Integration Service, system architecture design, system engineering, software application implementation, hardware integration, process optimisation, consultancy

#### Engineering Software

### Field Instrumentation

#### Flow Meters/Transmitters

Ultrasonic, mass flow, coriolis, magnetic inductive, thermal mass, differential pressure, turbine, float, vortex

#### Pressure/Differential Pressure Meters/Transmitters

Manometers, tube spring/helical, shell spring, bellows, diaphragm, differential pressure, gas pressure, pressure indicators, seals

#### Level Meters/Switches

Capacitive, gamma, hydrostatic, radar, ultrasonic, float/displacement, vibration, conductivity

#### Analytical Instrumentation

Emission, immission, BOD measurement, TOC/TOD measurement, colour, turbidity, pH, oxygen, residual chlorine, gas chromatography, density, conductivity, impedance, ion selective, relative humidity, spectrophotometers, UV/VIS/NIR, viscosity, TDLS

#### Control Instruments

Control valves (bellows, rotary cone, ball, membrane, needle, knife, butterfly, cone), valve positioners, converters, over-pressure valves, steam control, signal converters, vacuum controllers, safety valves, reducing and solenoid valves cryogenic control equipment, flow/pressure/level/temperature controllers

#### Handheld Testers

Gas, oxygen, electric, power quality

### Factory Automation

#### Sensors & Motion Control

##### Position Sensors

Linear, rotary, angular, proximity

##### Accelerometers & Vibration Sensors

Torque, servo, piezo electric, strain gauge

##### Pressure Sensors

Transducers, piezoresistive

##### Loadcells

Mechanical, strain gauge, helical, fibre optic, piezoresistive

##### Color & Object Detection Sensors

Vision sensors, photoelectric sensors

##### Motion Control Products

Stepper/servo motors/drivers/controllers, actuators & stages, solenoid control electronics, motor feedback systems, power supplies

### Mechatronic Systems & Software

#### Vision & Monitoring Systems

Cameras, framegrabbers, data collection

#### Robotics & Handling Systems

Pick & place, stepper motor systems, gripping systems, conveyor systems, robotics

#### Automatic Identification Systems

Barcode systems, RFID systems, transponder systems

#### Machine Safety Systems

Safety light curtains, programmable safety controllers, safety relays, process safeguarding, safety interlock switches

#### Industrial Cyber Security

#### Industrial Vacuum Systems/Clean Air Technology

Pumps, blowers, high vacuum, liquid ring, gas compressors, dry vacuum, side channel blowers, rotary vane, filtersystems, membranetechnology

#### Weighing & Dosing Systems

Check weighers, (semi)automatic weighers, weighing stations, modules & loadcells, weighing software systems

#### Man Machine/Machine Machine Interface Systems (MMI)

Displays, keyboards, monitorscreens, speech systems

#### Networking & Connectivity Systems

IO-Link, CAN bus, PROFIBUS, PROFINET, remote systems, wireless sensor systems, cabling, connectors, optical fiber, ethernet devices

#### Machine Control Systems

PLC; Programmable Logic Controller, industrial PC's, data acquisition, Fieldbus communication systems

#### Systems Control

SCADA; Supervisory Control And Data Acquisition, MES; Management Execution Systems

#### Engineering Software