

Automation



Systems Automation - A complete service - From conceptual design to commissioning and support.

From Tank Farms to Theme Parks

Whatever your automation needs TAS will probably be able to help you, based on experience in a wide range of industrial and service sectors.

TAS experience includes:

- ✓ Batch Process Control
- ✓ Packaging line automation
- ✓ Process sequence controls
- ✓ Bar code reading & tanker loading control
- ✓ Tank farm monitoring via SCADA systems links
- ✓ Theme park show controls, including flame effects
- ✓ Pipeline monitoring with telemetry links
- ✓ Site wide services distribution metering System
- ✓ Building Management Services
- ✓ Lighthouse automation, complete with remote telemetry

Support at all stages of automation projects

TAS can offer a full service, from initial cost benefit studies, through conceptual design, system specification, detailed design, equipment selection, programming, installation support and commissioning.

Ongoing support

On completion of the project TAS can offer a range of support services, from 9am - 5pm telephone advice to 24 x 7 call out to ensure that downtime is kept to an absolute minimum.

Services on offer include:

- ✓ Feasibility Studies and Cost Benefit Analysis
- ✓ Conceptual Design
- ✓ User Requirement Specification
- ✓ Hazard & Operability Studies
- ✓ Functional Specification
- ✓ System Detailed Design & Equipment Selection
- ✓ Software Development & Factory Acceptance
- ✓ Installation Support
- ✓ Commissioning & Site Acceptance Testing
- ✓ Service Level Agreements and System Maintenance
- ✓ **Most PLC and SCADA packages including:**
 - Allen Bradley
 - Siemens
 - Sattcon (ABB)
 - Mitsubishi
 - Square D
 - Toshiba
 - Wonderware
 - Fix
 - Factory Link



Automation



Services on offer include:

Feasibility Studies and Cost Benefit Analysis

Reviewing outline schemes and carrying out studies to determine alternative solutions and the cost benefit to the business of the alternatives.

Conceptual Design

Developing proposals on system architectures and appropriate technology

User Requirement Specification

Writing a user requirement specification to define the system requirements

Hazard & Operability Studies

Carrying out a detailed analysis of the operation of the system and studying the safety implications of the proposed system, safety interlocks and failure modes.

Functional Specification

Writing detailed specification of the way in which the system is proposed to operate. This may also include a Theory of Operation (THOP).

System Detailed Design & Equipment Selection

Detailed design of the physical installation, including the selection of PLC, operator interfaces (HMIs) and SCADA package.

Software Development & Factory Acceptance

Development of the PLC, HMI and/or SCADA software programs. Testing of all software prior to delivery to site. Preparation of full documentation for the software.

Installation Support

Support for contractors during the installation phase.

Commissioning & Site Acceptance Testing

Commissioning of all software and site acceptance testing, leading to project sign off and delivery of as-built documentation.

Service Level Agreements and System Maintenance

On-going support for the system. This will be tailored to client requirements and may range from simple telephone support, to full support on a 24 x 7 call -out, with regular maintenance visits.

Existing Systems Support

TAS can provide assistance and support for exiting systems. This may involve upgrading software, extending functionality or migrating obsolete and unsupported systems to current technology.

Independent Advice

TAS are independent of any system or equipment supplier and can therefore make impartial recommendations to clients on the most appropriate supplier