



SMITH
FLOW CONTROL LTD

SFC KEY INTERLOCKS & PROCESS MANAGEMENT SYSTEMS



KEY STORAGE & MANAGEMENT



SFC 'VISUAL ALERT' AND 'PERMIT-TO-WORK' KEY MANAGEMENT SYSTEMS

Well designed interlock installations also include an effective and efficient key management system that will provide a continuous and reliable indication of the status of all interlocked process systems.

SFC 'Visual Alert' Key Cabinets provide an effective and infallible management control system against unauthorised or inadvertent operation of interlocked valves or associated process equipment by keeping the coded keys which initiate the operation of critical valves under secure supervisory control.

The SFC 'Visual Alert' Key Management System dedicates and maintains the operation of critical valve and process operations totally within the control of the Designated Authority and the Performing Authority, enabling Permit to Work (PtW) procedures to be carried out safely and efficiently. The system concept is totally flexible and is designed in each case to integrate with each client's operating system and working practices.

DESIGN FEATURES AND BENEFITS

- Carbon or Stainless Steel construction available.
- 'Glazed' door provides key status without the need to open/un-lock.
- Ingress protection from IP55 to IP66.
- Lockable doors.
- Wall brackets provided.
- Total integrity by using dedicated key locations.
- Complete key status awareness.
- Can incorporate microswitch actuation to signal key movements.

KEY CABINETS

SFC Process Management Systems provide effective protection to clients' investments in plant and equipment as well as improving employee safety and reducing the risk of damage to the environment.

SFC PERMIT TO WORK (PTW) SYSTEMS

Having adopted a good key interlock control system, the next most important step is to apply a good key management system.

For storage, ease of access and issue, SFC key cabinets provide all that is required.

A key cabinet should be located in a secure place; typically a Control Room whereby initiating keys are issued by the Shift Supervisor, Offshore Installation Manager (OIM) or other person in authority.

Cabinets vary in size and can accommodate from 1 - 227 system initiating (or spare) keys. Keys can be located via means of hooks or holsters (the holster locator provides increased capacity).

Each interlocked system has a dedicated engraved tag location within the key cabinet. During periods of normal operations, all interlock system 'permit' (initiating) keys are visually displayed within the cabinet in dedicated locations.

Each key cabinet tag is engraved with the relevant piping package data - this same data is also replicated on each system key.

When the key is removed, a 'Visual Alert' tag is revealed providing details of the key which has been issued, its designated location, and the words 'WORK IN PROGRESS'.

Control Room staff have clear and easy indication of work status at any time. Key cabinets can also accommodate mimic diagrams. These are extracts of the P&ID diagram engraved onto a Traffelite plaque and show clear details of all valves which are interlocked.



SFC Key Cabinets can incorporate a Pin Code system which prevents the replacing of a system key incorrectly.

A micro-switch option is available for signalling key removal/entry.



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