

# REMSAFE

## REMOTE ISOLATION SYSTEM

**REMSAFE** offers a patented, modular remote isolation system enabling rapid isolation and de-isolation of electrical and mechanical isolators for Industry.

The two main components of a **REMSAFE** remote isolation system are:

1. Failsafe Instrument Cubicle (**FIC**)
2. Field Isolation Station (**FIS**)

## FAILSAFE INSTRUMENT CUBICLE

The Failsafe Instrument Cubicle (**FIC**) contains the smarts of the system.

The cubicle's design is modular to accommodate the varying requirements of each installation.

It contains one Master Control Module (**MCM**), which houses the:

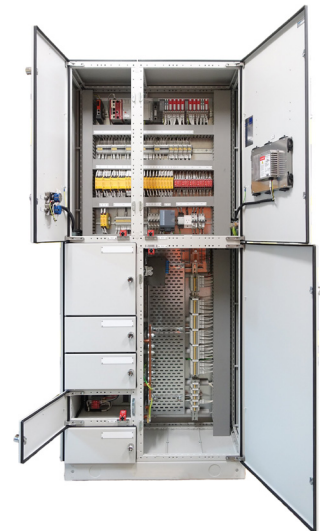
- SAFETY PLC for the REMSAFE Remote Isolation System (**RIS**);
- Safety Input/Output modules;
- Safety Relays;
- HMI and;
- The network hardware that communicates with the existing site control system.

These all work together to monitor and supervise the RIS and create reportable data.

The Low Voltage (**LV**) modules contain safety contactors that are used as isolation devices.

The number of LV Modules is determined by the number and types of drives required to be isolated. If the system requires more modules than will fit in one FIC, it is a simple matter of installing an additional FIC.

The FIC is capable of supporting multiple Field Isolation Stations either out on your plant or wherever is most convenient for you.



For more information, visit...

[WWW.REMSAFE.COM.AU](http://WWW.REMSAFE.COM.AU)



## FIELD ISOLATION STATION

The Field Isolation Station (**FIS**) is conveniently located as close as possible to the equipment to be isolated e.g. a conveyor. The FIS cabinet is designed to withstand the harsh conditions experienced on mine sites, preventing material build-up. The outer door is lockable and utilises restricted access locks on the inner door to protect the internal safety rated hardware. The inner door fascia is the operator interface panel.

Mounted on the he operator interface panel is the unique isolator lock-out switch and the touch screen.

Using REMSAFE, the isolation still occurs in the substation, once approved by the control room operator, there is no longer the need to:

- Track down an authorised isolator;
- Wait for them to be available;
- Wait for them to travel to the substation;
- Wait for the operator/other personnel to meet at the substation and place personal locks;
- Wait for the electrician to kit up in PPE, risk arc flash exposure, isolate, lock out, and;
- Then travel back to the plant to do the work that necessitated the isolation.

**The wait time is eliminated.**

The system is designed to fail to safe. It continually monitors the integrity of the isolation and the system itself.

The remote isolation system checks and monitors the integrity of the isolation. In the event that it does find conditions have been compromised prior to or during an isolation, the system will return to its last safe state and alert via SCADA.

The remote isolation system also diagnoses its own health and status including interfaces with the site plant. This allows for the necessary feedback, control and facilitates quick and easy troubleshooting.

This is monitored by the site PLC and reported by SCADA to the control room operator.

The benefit of these features means that your equipment is kept operational with as little interference and delays from downtime as possible, ensuring your plant is being utilised optimally, with no compromises on safety.



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