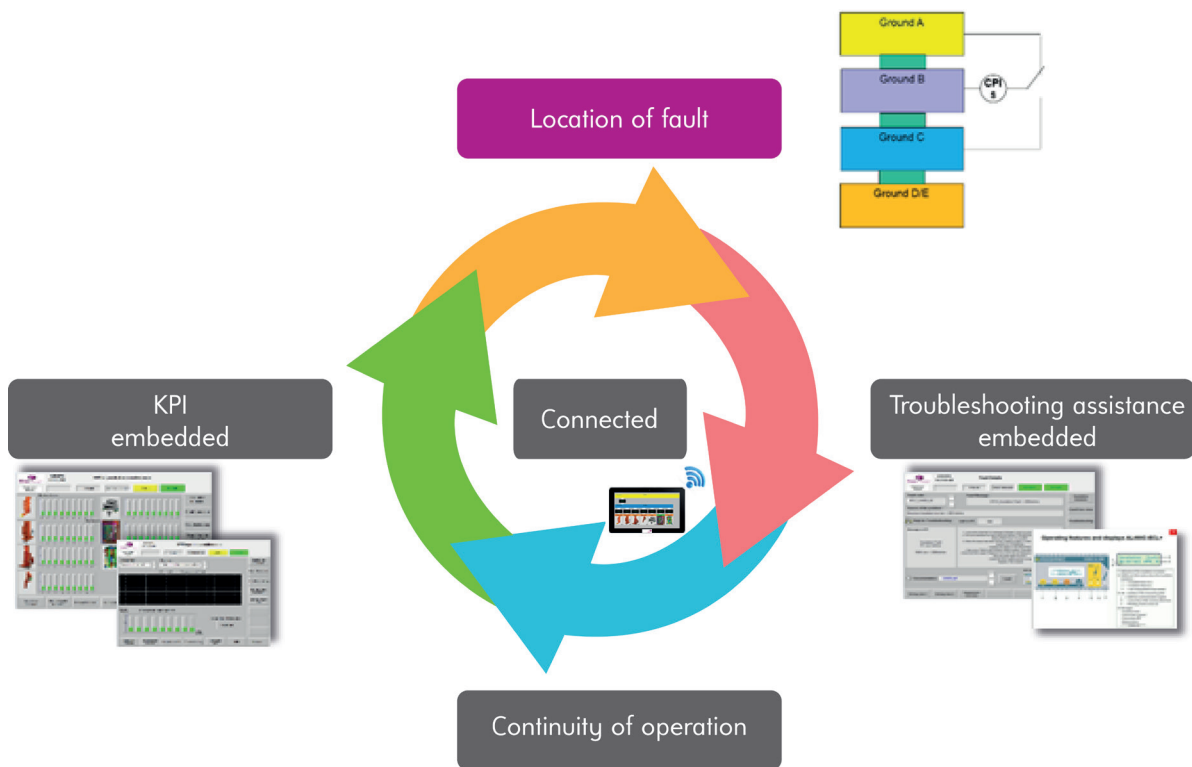


CANDI® 4.0, the new Electrical Insulation Monitoring System



The most valuable tool for trouble shooting assistance

- A modular system to comply with the different machine structure
- A display unit to locate the fault and local repairs
- Easy revamping on any existing machine



A «Modular & Upgradable» measuring system

The machines operating in electrolysis halls are inevitably in contact with pot assemblies which have different voltage reference. Thus, a proper electrical insulation is essential to avoid short circuits leading to shock hazards, equipment damage and costly operation downtime.

PRINCIPLES OF THE SOLUTION

Fives has designed CANDI®4.0, an efficient device to monitor automatically the electrical insulation of machines in operation. The different sub-assemblies are electrically insulated from the others at all time (from the building, from the pot and from the floor).

Moreover, with CANDI®4.0, only the part detected as defective is unavailable while all other tools continue to operate.

The solution consists of:

- A main cabinet and small boxes depending on machine architecture
- A Human Machine Interface system to display information
- A stand-alone or connected equipment with existing machine network
- Wifi connection available with graphic tablet or smartphone

In case of electrical insulation fault, the CANDI®4.0 system sends early warnings to the user so that it can be detected before any damage occurrence.

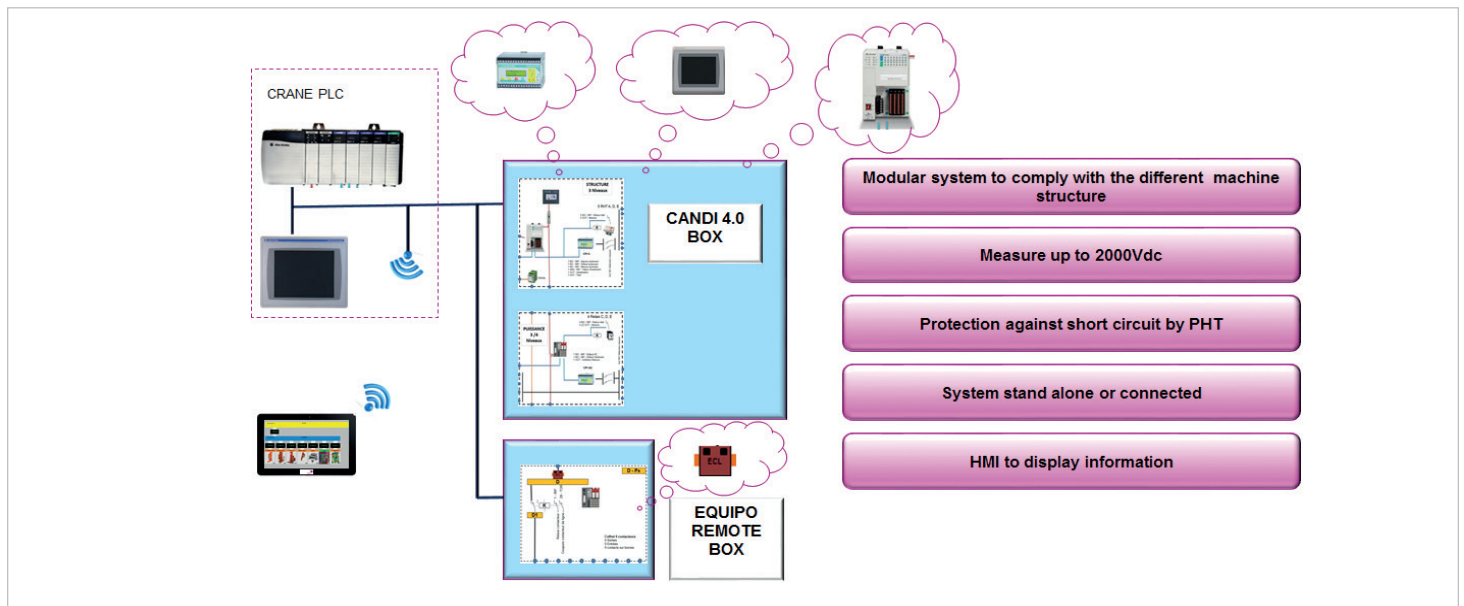
BENEFITS AT A GLANCE

- Easy predictive maintenance
- Modular system to comply with any type of machine generation
- Enhanced safety both for operators and equipment
- Reduced machine and maintenance downtime

OPERATIONAL ADVANTAGES

- Monitoring of both structural and power insulation values
- Accurate location of the fault on the cabin terminal operator and on any connected equipment
- Fault and alarm history
- Troubleshooting assistance and KPI embedded
- Operational duties continuity
- Up to four insulation levels

Up to
2,000 Vdc | measurement



SOME REFERENCES

Trimet St Jean de Maurienne, France - ALBA, Bahrain - South 32 Mozal, Mozambique - South 32 Hillside, South Africa

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Industry can do it