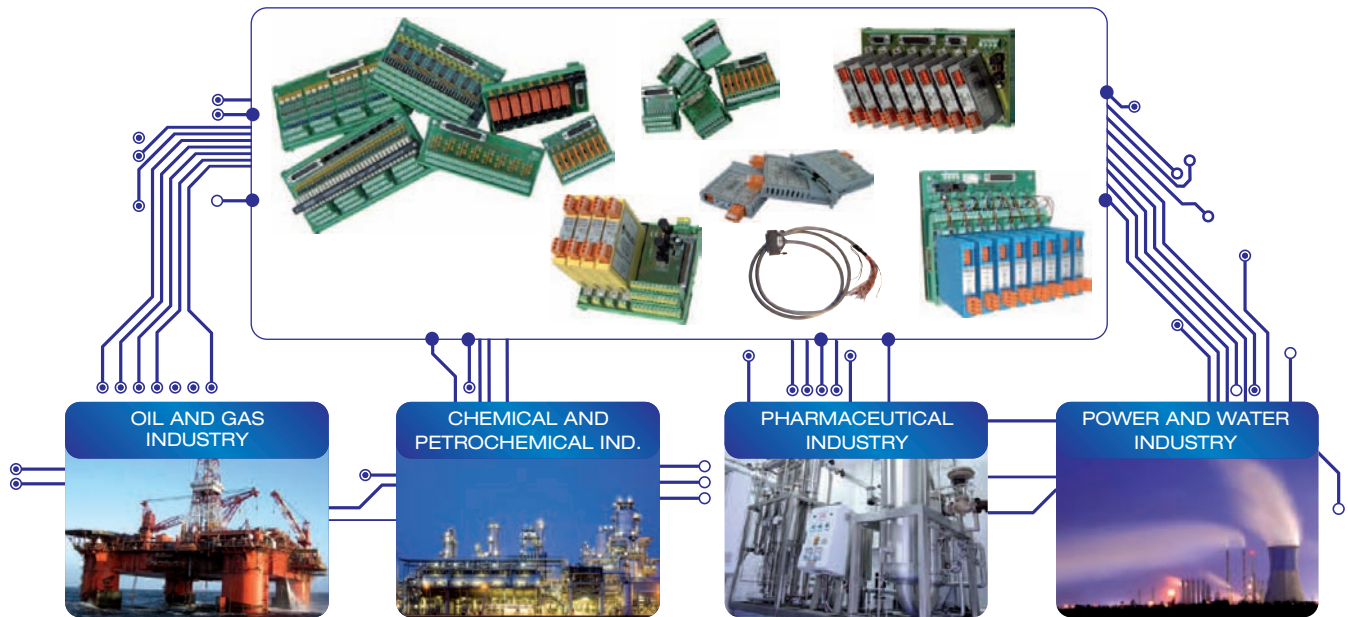


### Interfacing solutions for process automation



### PRESENTATION

Founded more than 15 years ago, FIRELEC is a developer and manufacturer of electrical and electronic technologies for industrial automation and process control market.

Our products are particularly suitable for Digital Control System (DCS) and Programmable Logic Controller (PLC) interfacing. They are generally used on process plants (chemical, petrochemical, pharmaceutical, Oil & Gas, Power and Water...) for the interfacing of the process signals (inputs and outputs) between the plant and the process automation utilities.

FIRELEC provides products and cables for standard, Intrinsically safe (Ex) and safety signals (SIL3).

### ◆ Standard products and cables

Our range of Field Termination Assemblies (FTA) and cables, provides an efficient way for the quick interconnection between the various pieces of the measurement and control chain.

Our FTAs can connect, convert (with or without galvanic isolation) and protect (current limitation, fuses...) different sorts of signals, like :

#### Analog inputs and outputs :

- > 4-20 mA (HART transparent), 0-20 mA, 0-1A, 0-5A
- > 1-5 Vdc and 0-10 Vdc
- > Thermocouples and RTDs (with or without linearization)

#### Discrete inputs and outputs :

- > Dry contacts
- > Proximity switches (inductive or capacitive)
- > Electromechanical relays (AC or DC voltage)
- > Solid State relays (AC or DC voltage)

### ◆ Custom Electronics

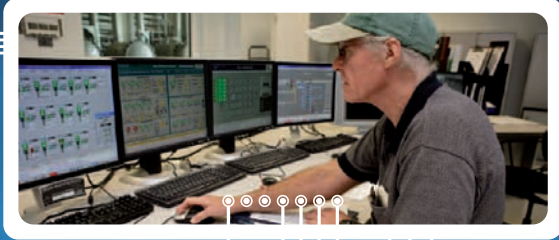
Our experienced engineers and technical staff can design and produce assemblies according to the highest quality standards with 100% test and inspection on all assemblies and enclosures.

We work with the customer team from design specification through production to deliver :

- > Pre-assembled electronic modules
- > Design and production prototypes
- > Custom printed circuit board products
- > Interconnection cables

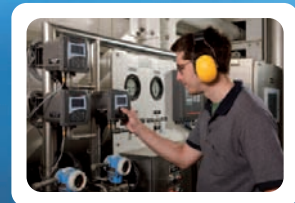
As we manage and control all phases of the development and prototyping within our integrated and flexible team, we can propose to our customers a very short time to market for their products.

# Automation System (DCS or PLC)



- ◆ Interface units for analog signals
- ◆ Interface units for discrete signals
- ◆ Interface units for intrinsically safe (Ex) signals
- ◆ Mounting and wiring panels for conditioning modules for standard signals
- ◆ Mounting and wiring panels for conditioning modules for intrinsically safe (Ex) signals
- ◆ Mounting and wiring panels for conditioning modules for (SIL3-IEC61508) safety signals
- ◆ Conditioning modules for standard signals

- ◆ Conditioning modules for intrinsically safe (Ex) signals
- ◆ Conditioning modules for safety signals (SIL3 - IEC1508)
- ◆ Wiring adapters for quick connection / disconnection
- ◆ Wiring adapters for system migration
- ◆ Racks and accessories
- ◆ Cables for interconnection
- ◆ Spare parts
- ◆ Remote termination interface units



## ◆ Partnership

The FIRELEC products are particularly suitable for the systems of EMERSON like DeltaV, OVATION, PROVOX, RS3. On this account, EMERSON and FIRELEC have signed Supply Agreements (Europe in 2002 and Russia in 2007) for the using of the FIRELEC range of products as part of the process automation projects managed by EMERSON.



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