

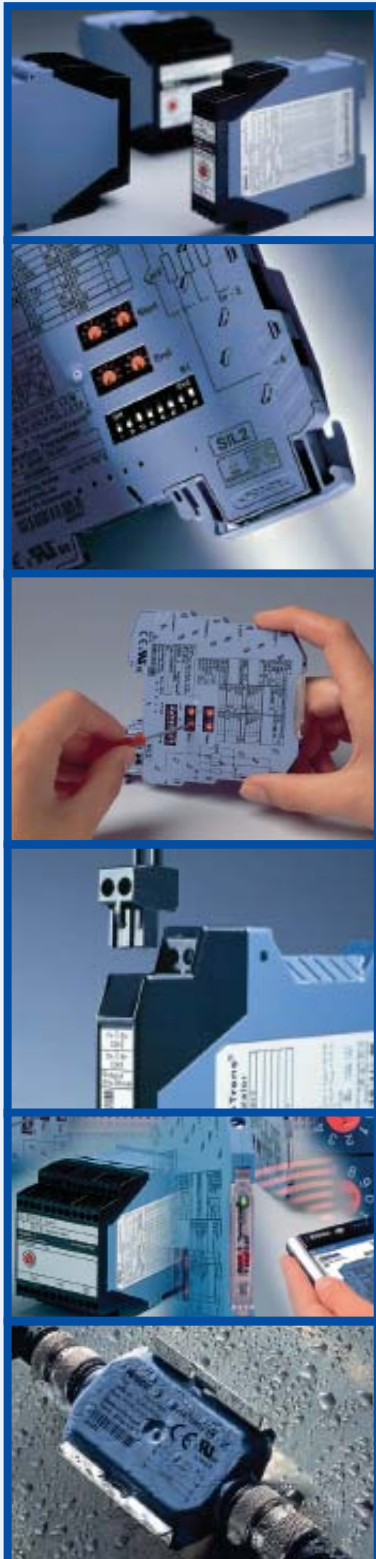
# ELSCOLAB

## OEM

Original Equipment Manufacturer

*We keep your applications going!*





## Electrical isolation in industrial measuring technology

### Applications

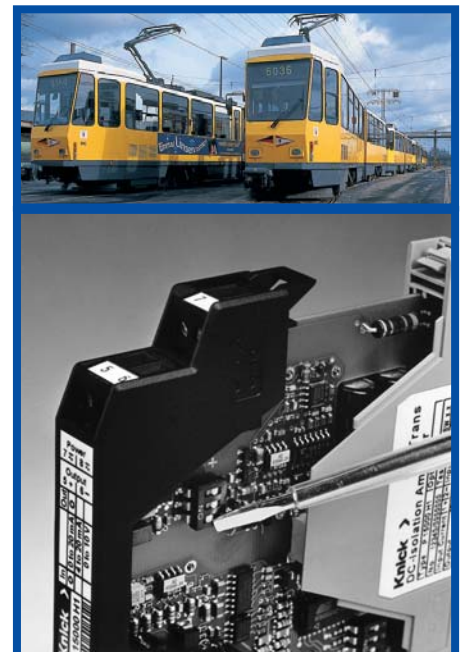
- Isolation transmitter signals
- Converting True RMS signals
- Temperature and strain gauge convertors
- Isolation amplifiers for High Voltage/Shunt applications
- AC/DC transmitters
- Shunt applications
- ATEX

### Users

- Train, railway & metro substations
- Temperature and vibrating control turbines (STEG)
- Measurement in steel & automotive industries
- Marine
- Water companies
- (Petro-) Chemical industry

### Knick

- 6 mm width modules
- Signals from 0 – 20 mV up to 0 – 3,6 kV (0 - 0,1 mA up to 0 - 5 A)
- Cut-off frequency 10 kHz
- Sil compatible component



## Safety devices for pressure (switches)

- Pumps
  - Compressors
  - Lubrication oil
  - Turbines
  - Safety system
  - Motors
  - Transmission
  - Gearboxes
  - Reactors
  - Pressure vessels
- 
- SPST – SPDT  
(1,2 or 3 switches in 1 device)
  - EEx 'd' & 'ia'
  - SIL compatible component
  - Treshold detection
  - Latch
  - Adjustable deadband
  - Plugged port detection



## Pressure transmitters

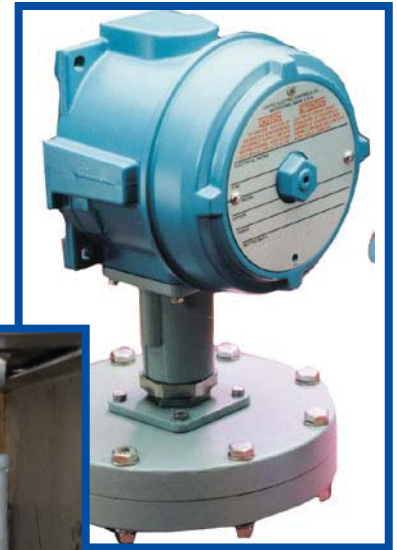
Applications in petrochemical industry  
Off-shore platforms

Adjustable range  
EEx 'd'

United Electric products

## Differential pressure for gas, steam and liquids

- Filters
- Tank level measurement
- Differential pressure ranges from 50 mbar till 400 bar
- United Electric – Mid West Instruments



## Differential pressure for air-acclimatization and airflow measurement

Clean-room  
Air handling  
Laboratory ventilation

Micatrone products

Low differential pressure ranges: -50 Pa till 50 Pa -...- +/- 20 kPa



## Safety devices (for temperature)

Temperature switches for next applications:  
Compressors; Lubrification oil; Boilers; Motors & ...

United Electric

SPST – SPDT (1,2 or 3 switches in 1 device)  
EEx'd' & 'ia'  
SIL compatible component

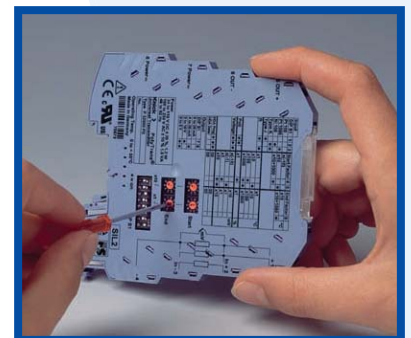


## Temperature convertors

Pt100, Pt1000, thermocouples (J,K, ...): temperature control;  
signal converting; ...

Knick

Eex ia (zone 0,1 and 2)  
SIL compatible component



## Temperature measurement devices

Only available for constructor OEM applications.  
Pt100, Pt1000, thermocouples (J,K, ...) for temperature  
measurement in motors, cogeneration, ...

Sika

Build in equipment  
Germanischer Lloyd (GL)



## Flow for liquids

### Detection

- heating-systems manufacture
- heat-pump
- industrial cooler
- industrial X-ray
- swimming pool heaters
- water-cooled chillers
- Industrial laundries

### Measurement

- Diode-laser
- Drinking-systems
- Reverse osmosis system
- Air/water heat exchanger
- Water-softeners

### Sika specifications

Solutions for flow

Conducts till DN 150

Brass – stainless steel – plastics

Water – solutions in water – oil

Switch paddle – turbine – electromagnetic – transit time

## Pumps & flow regulation solutions

From few  $\mu\text{l}/\text{minute}$  till  $5\text{l}/\text{minute}$

### Applications

Medical

Spraying Systems

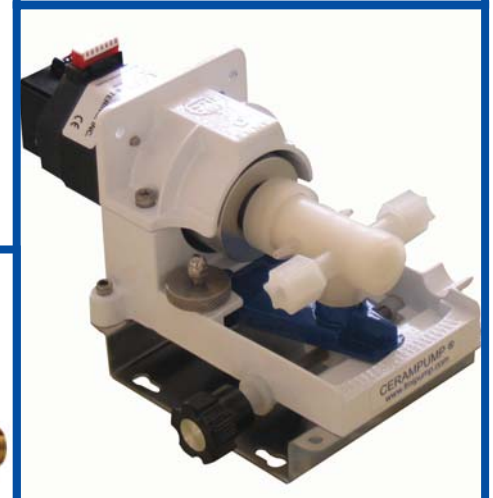
Environmental & Pollutions Control

Battery manufacturing

Instrumentation

Dispensing systems

Food & Dairy



## Online



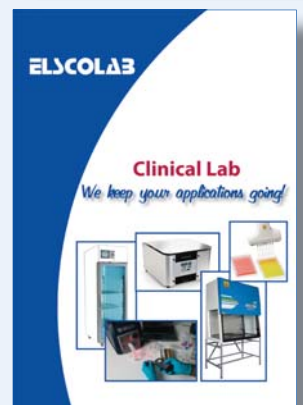
## Environmental



## Materials Testing



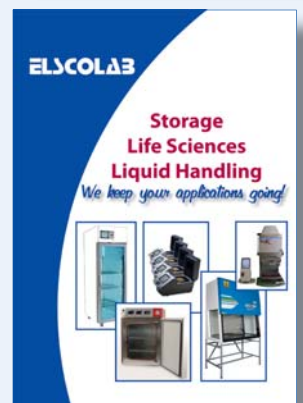
## Clinical Lab



## General Lab



## Storage Life Sciences Liquid Handling



## Service



Interested in another brochure?  
Ask your brochure at [elscolab@elscolab.com](mailto:elscolab@elscolab.com)!

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## OEM

### Original Equipment Manufacturer

*We keep your applications going!*

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Street: \_\_\_\_\_ CITY: \_\_\_\_\_  
Phone: \_\_\_\_\_ FAX: \_\_\_\_\_  
e-MAIL: \_\_\_\_\_

#### FAX REPLY SHEET 03/252 87 83 Please provide me information on:

- OEM - Isolated amplifiers
- OEM - Pressure
- OEM - Differential pressure
- OEM - Temperature
- OEM - Flow
- OEM - Pumps
- Brochure: Online
- Brochure: Environmental