

# FIELDBUS TECHNOLOGY

## Remote I/O





# Remote I/O Signal conditioning



## Why Remote I/O?

- Digital signal quality
- HART communication with field devices
- Diagnostic and self monitoring
- Simplified engineering
- Reduction of wiring
- Control room space saving
- Loop cost reduction



**HART Communication**  
Profibus allows HART communication.

Alternatively HART communication is possible via the service bus, using standard software.



Single and multichannel mixable

## Zone 2 base unit



may be plugged in or removed in zone 1 from a live circuit

Main bus link

Redundant bus link

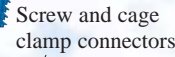
Service bus for commissioning and remote diagnostic

COM unit for various bus protocols:

- Modbus
- Profibus DP
- Profibus DVP1

Redundancy for your installation safety

may be plugged in or removed in zone 2 from a live circuit



Screw and cage clamp connectors

power supply

redundant power supply

## Zone 1 base unit

### Zone 1 modules

- Same electronics for LB and FB
- Potted for rough environment application
- Same engineering and functionality for LB and FB
- 24 VDC or 120 / 230 VAC power supply
- online maintenance

- no hot work permit required,
- no energy limitation,
- intelligent combination of hazardous area protection methods.



Fiber optic link option

Redundancy



various enclosures with ATEX Certification



Single and multichannel Ex-i and Ex-e mixable



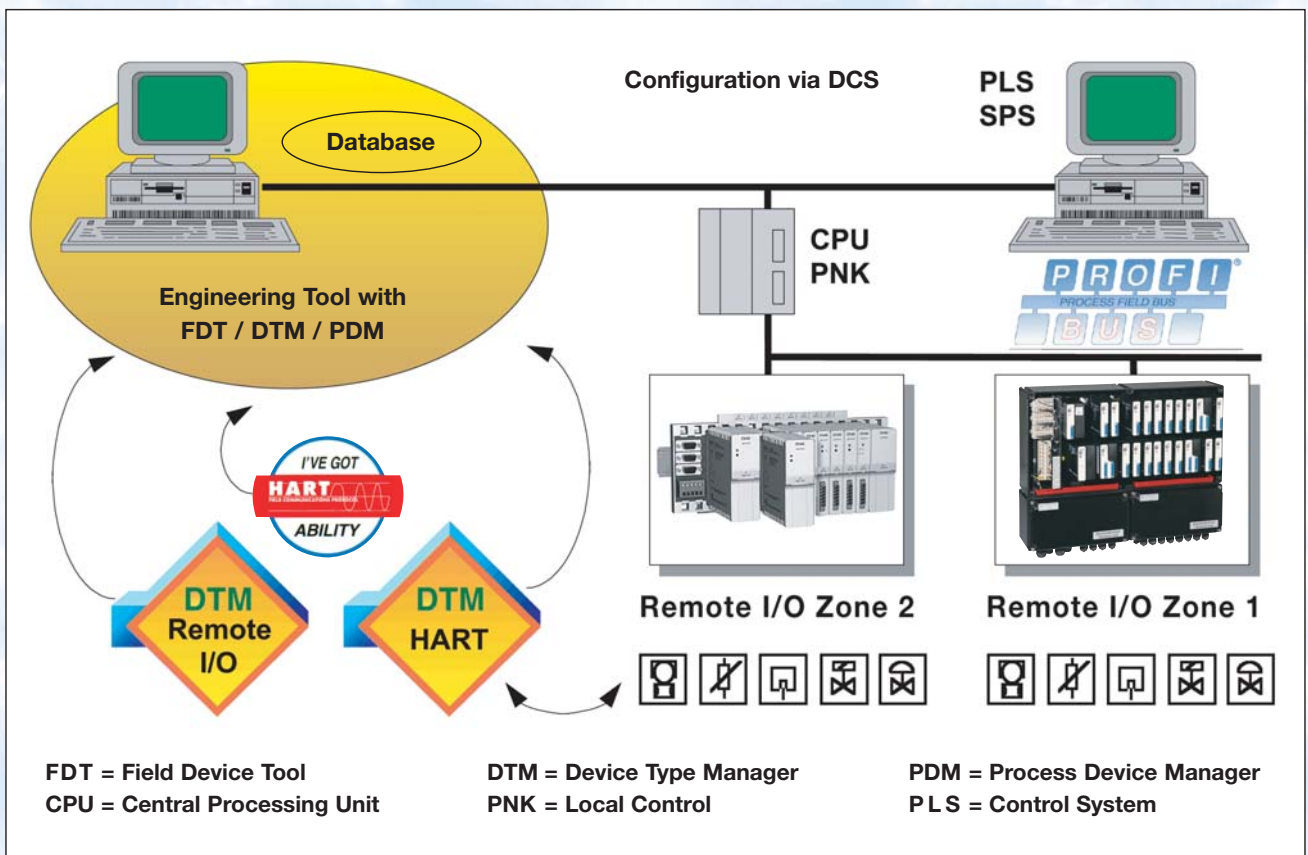


# Integrated in DCS



## Configuration via Profibus

Important references for configuration and parameterization via Profibus DPV1 using the DCS Engineering Tool.



### Field Device Tool (FDT)

GEORGIN provides Device Type Manager (DTM) for FDT. This allows configuration and parameterization of the Remote I/O from the DCS Engineering Tool via Profibus.

Similar solutions (Siemens PDM ...) also supported.

### ONLINE configuration using DTM / PDM.

Online configuration and parameterization supported from various DCS suppliers.

### References

More than **100 000**

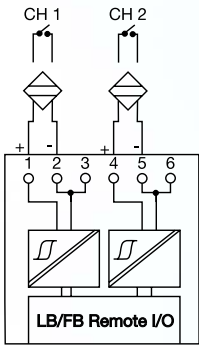
I/O modules since 1995.

Links to all important DCS.

# Remote I/O modules Zone 1 / Zone 2

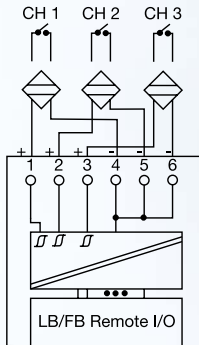


**LB1Y01 FB1Y01**



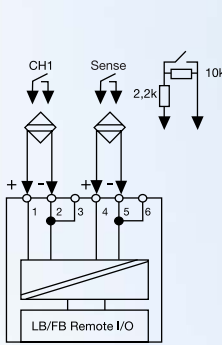
**2 channels**

**LB1Y02 FB1Y02**



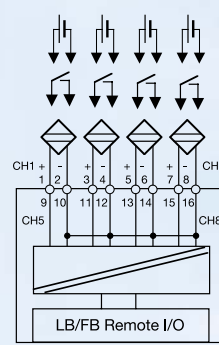
**3 channels**

**LB1Y03 FB1Y03**



**frequency, counter**

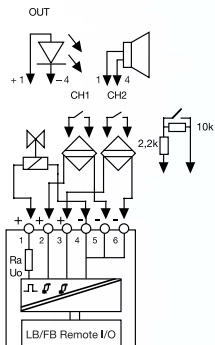
**LB1Y08 FB1Y08**



**8 channels**

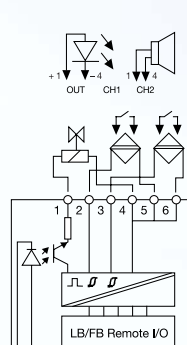
**Digital input**  
2 channels  
8 channels

**LB2YXX FB22XX**



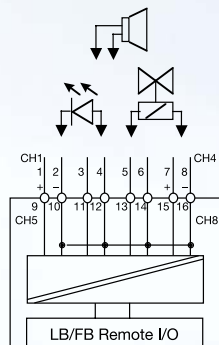
**1 output, 2 inputs**

**LB2YXX FB22XX**



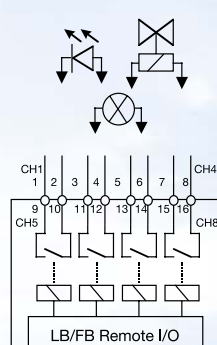
**1 output, 2 inputs with emergency stop**

**LB6Y08 FB6Y08**



**8 channels**

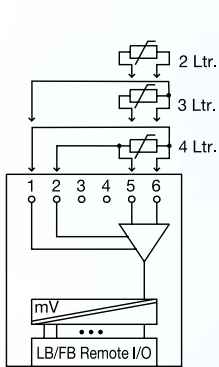
**LB6006 FB6306**



**8 relays**

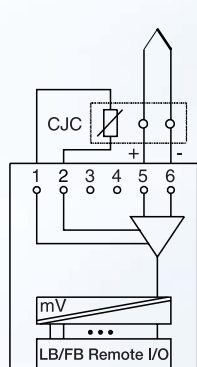
**Digital output**  
1 channel  
8 channels

**LB5Y01 FB5201**



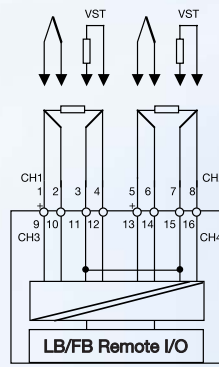
**1 x RTD 100**

**LB5Y02 FB5202**



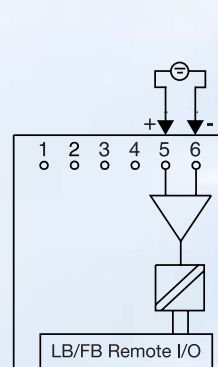
**1 x thermocouple**

**LB5Y04 FB5204**



**4 channels**

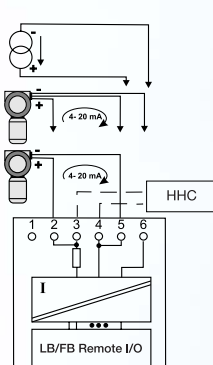
**LB5Y06 FB5206**



**1 x +/- 10 V**

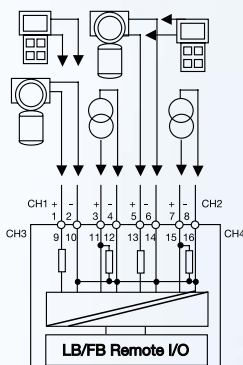
**Temperature/Voltage**  
**Resistance**  
1 channel  
4 channels

**LB3Y02 FB3Y02**



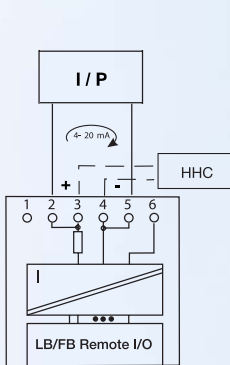
**1 channel input**

**LB3Y05 FB3205**



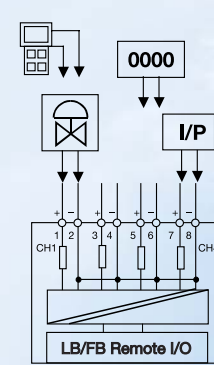
**4 channels input**

**LB4Y02 FB4Y02**



**1 channel output**

**LB4Y05 FB4205**



**4 channels output**

**Analog**  
**Input**  
**Output**  
1 channel  
4 channels

**LB = Zone 2**  
**FB = Zone 1**  
**Y = 0 Non-Ex**  
**Y = 1 intrinsically safe**  
**Y = 2 Ex-i Zone 1**  
**Y = 3 Ex-e Zone 1**

# Your partner for instrumentation and hazardous areas



IS Barriers



Displays



Bargraphs



Pressure Switches /  
Temperature Switches



Transmitters



Pressure and  
Temperature Gauges



Complete Range



Accessories

*Our experts team stays at your disposal for assistance.*

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