excom is a remote I/O system for use in hazardous locations consisting of power modules, PROFIBUS®-DP communication gateways, I/O modules and fiber-optic couplers. It can be mounted in various designs, allowing a great flexibility in system installation and adaptation. The gateways, power supplies and I/O cards are simply plugged into the backplane rack, with all power, PROFIBUS-DP, I/O wiring separate from the removable modules. I/O modules may also be changed during operation (“hot-swappable”). The system automatically checks whether a newly inserted module matches the configuration.

The I/O modules provide the interface to field devices. The backplane distributes power to the I/O from the power supply, with no need for a separate field supply. The gateways, power supplies and I/O cards are simply plugged into the backplane rack, with all power, PROFIBUS-DP, I/O wiring separate from the removable modules. I/O modules may also be changed during operation (“hot-swappable”). The system automatically checks whether a newly inserted module matches the configuration.

When the excom system is used, the PROFIBUS-DP segment coupler must also be used for the interfacing. The coupler is equipped with one standard RS485-IS interface that allows redundancy. Optional interfaces that allow redundancy. Optional

- RS485-IS
- RS485-IS
- RS485-IS
- RS485-IS

Integrated rails for mechanical coding

Module front cap with

Connection of external

Connection of

Integrated rails for mechanical coding

Module front cap with

Connection of external
EXCOM® SYSTEM OVERVIEW

EXCOM® is a remote I/O system for use in hazardous locations consisting of power modules, PROFIBUS®-DP communication gateways, I/O modules and a configuration box. The configuration box is the entry point, with support for PROFIBUS-DP communications.

The PROFIBUS-DP interface is equipped with one standard RS485-IS interface that allows redundancy. Optional PROFIBUS-DP interfaces can be used to interface with other systems.

The PROFIBUS-DP segment coupler automatically checks whether a newly inserted module matches the configuration. If not, an error message is displayed.

The system is designed to be modular and scalable, allowing for easy expansion and modifications. The system can be configured to meet specific process needs and can be integrated with other systems.

The system is also designed to be safe and reliable. It includes safety features such as overcurrent protection and short-circuit protection, ensuring the system operates within its design specifications.

The system is suitable for use in a variety of industries, including oil and gas, energy, and chemical production. The system is designed to meet the requirements of process control in these industries, providing accurate and reliable data collection and control.

The system can be installed in a variety of environments, including hazardous locations. The system is designed to be robust and durable, ensuring it can withstand harsh conditions and operate reliably.

The system is designed to be easy to use and maintain. It includes features such as intuitive interface and easy-to-use configuration software, making it simple for operators to use and maintain.

The system is also designed to be scalable, allowing for easy expansion and modifications as needed. The system can be configured to meet specific process needs and can be integrated with other systems.

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The DPC System (Diagnostic Power Conditioner System) is a power supply system for the physical layer of the FOUNDATION fieldbus. It is specially suited for smaller fieldbus installations, and provides a handy alternative to multi-segment backplanes. The new DPC System is a power supply system for the physical layer of the FOUNDATION fieldbus. It is specially suited for smaller fieldbus installations, and provides a handy alternative to multi-segment backplanes.

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### Equipment Group

- Notified Body Number
- European Area Classification
- Community Mark

### Intrinsically Safe Circuit
- A circuit in which any spark or thermal effect is incapable of causing ignition of a Flammable Material
- NEC (national electrical code):
  - NEC505 (Zone Method)
  - NEC500 (Division Method)

### NEC (national electrical code):
- Can be Present
- Zone 0
- Zone 1
- Zone 21 (dust)
- Class I
- Zone 0
- Zone 1 (Zone 21-dust)
- Class II
- Zone 3
- Class I Zone 0
- Class III
- Fibers

### Temperature Class
- T2
- T3B
- T5
- T6

### Class Substance Group
- Metal dust
- E
- Grain dust
- G
- Coal dust
- F

### Approvals
- ATEX
- FM C/US
- IECEX

### Voltage Supply
- 20-250 VAC
- 20-125 VDC

### Inputs
- 0/2-10 V
- 0/4-20 mA

### Outputs
- relay
- analog outputs

### Rotational Speed Monitor
- IM21-14-CDTR
- IM21-14Ex-CDR

### Analog Input / Output
- Voltage Supply 20-250 VAC
- Voltage 20-250 VAC / 20-125 VDC
- Inputs 0/2-10 V
- Outputs relay and analog outputs

### Limit value monitor
- Limit value monitor
- Limit value monitor
- Limit value monitor

### Current repeater
- Current repeater
- Current repeater
- Current repeater

### Alarm output
- 2 transistorsincl. 1 alarm

### Thermo-elements
- 2 NAMUR sensors or
- 4 NAMUR sensors or

### Power supply
- 20-250 VAC
- 20-125 VDC

### NAMUR sensor
- 2 NAMUR sensors or
- 4 NAMUR sensors or

### Transmitter supply
- 20-250 VAC
- 20-125 VDC

### Energy
- 0/4-20 mA or
- 0/2-10 V or transmitter

### Set point amplifier
- Analog output driver
- Potentiometer

### Modules
- Uses TURCK interface module cartridges.
- For further assistance please call Application Support: 1-800-544-7769

### Technology
- Pt-100 RTD
- Type K thermocouple
- Type J thermocouple
- Universal mA/V selectable
- 4-20 mA to 0-20 mA
- 0-20 mA to 0-20 mA
- 0-20 mA to 0-10 V

### Application area in accordance with ATEX:
- II (1) GD
- II (3) GD

### Applications:
- Pilot light, solenoid valve, 4-wire transmitter
- Analog actuator, positioner, display
- Active transmitter; Current source

### Part Number Description
- Cover guard
- IMC-SG
- Pilot light, solenoid valve, 4-wire transmitter
- Analog actuator, positioner, display
- Active transmitter; Current source

### Notes:
- Note: See Zones Below
- Note: For further assistance please call Application Support: 1-800-544-7769

### Technical Information
- This extremely compact module
- Modules are available without signal conditioning.
- Modules are available with
- Modules are also available for temperature detection using

### Technology Details
- Technology
- Technology
- Technology
- Technology
- Technology
specially suited for smaller fieldbus installations, and provides a handy alternative to
as well as a built-in diagnostics via a system alarm relay contact. Based on the established 800
like the multi-segment backplanes, the new
Fieldbus Cable Specifications
terminals.

Connections to the host system and to the field are provided via removable 3-pin screw
Maximum Length 1,900 meters

Conductor Size 18 AWG 22 AWG 26 AWG 16 AWG

1,200 meters

Pair

Pair

1,312 feet

656 feet

Interface Modules with FDT/DTM

Control and monitor 4-20 mA transmitters
•

Load cells
•

Movement, temperature, pressure, level control
•

Transflective LCD display, making it easy to

Numerous sizes and styles are available

•

Full line of inductive, capacitive and magnet

•

Class I, Class II, Class III, Division 1 and

•

Rated for FM Class I, Division 1 areas

•

Instances of Fisco power supplies/repeaters or multibarriers from TURCK are used.

The DPC system provides complete galvanic isolation; H1 to H1, H1 to 24 VDC power, ADU/DU

to the higher fieldbus level (e.g. to the host) as diagnostic and alarm data. The diagnostic module

functions for monitoring FOUNDATION™ fieldbus segments, and supports asset management

installation of

with RTD's and thermocouples

applications.

To simplify the commissioning task for FOUNDATION™ fieldbus systems, TURCK has introduced the new

Version the interface power

transflective LCD display, making it easy to

Portability and ease of use is important for FOUNDATION™ fieldbus system users. This is where the

metallic components do not bring the risk of a metal-to-metal connection that can cause

A DPC system consists of one or more module racks (DPC-49-4RMB) and one diagnostic module (DPC-49-ADU) each with up to eight power

Interchangeable I/O modules

Purpose

Operation without

between the H1 segments and the power supply module. The diagnostics module monitors the

Electrical parameters and communication parameters of the H1 segments. It provides comprehensive diagnostic

Hazardous areas are also available.

Connections to the host system and to the field are provided via removable 3-pin screw

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