

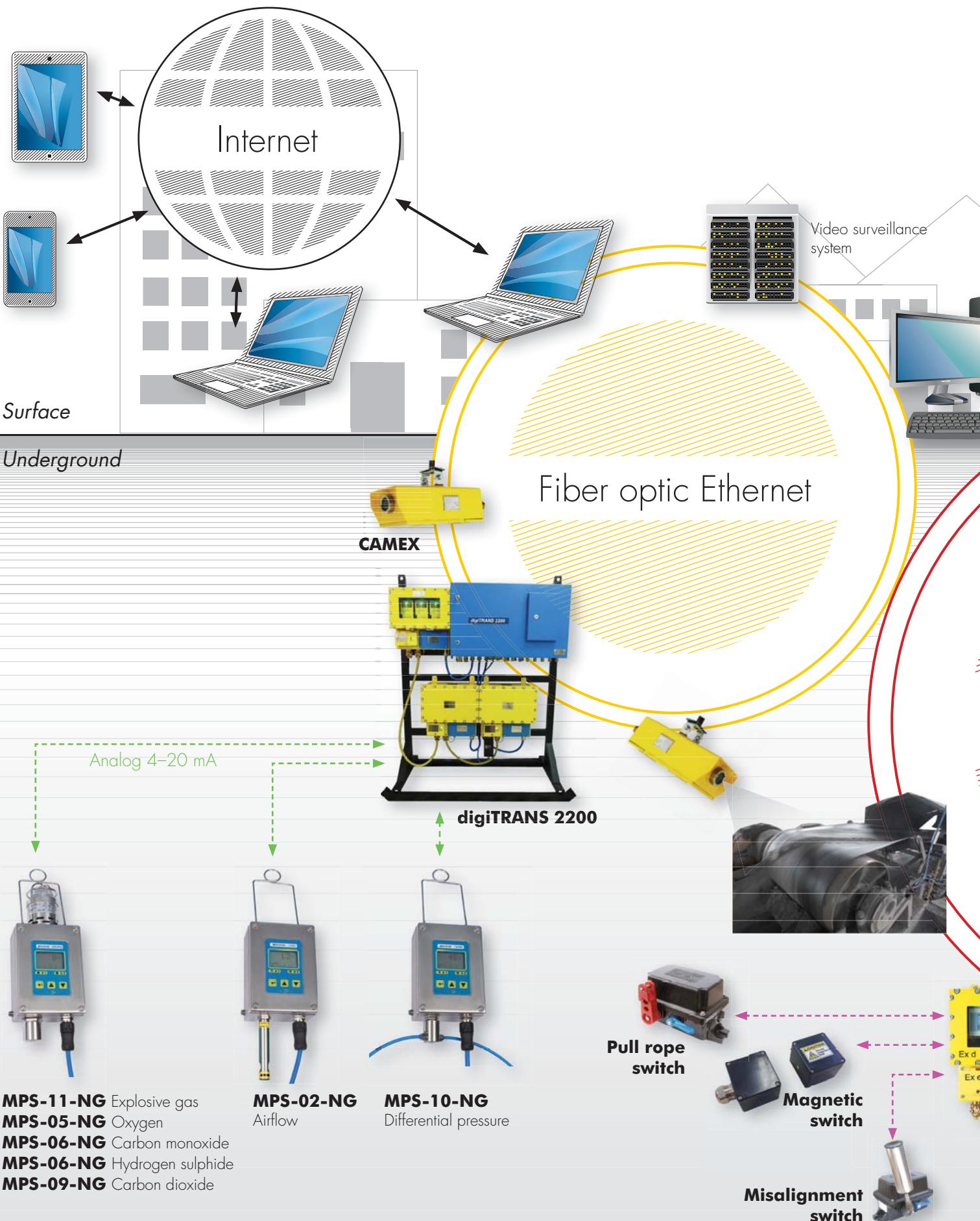


# DIGITRANS CONTROL SYSTEMS & MINING VIDEO SURVEILLANCE



## GAS DETECTION TECHNOLOGICAL PRODUCTS

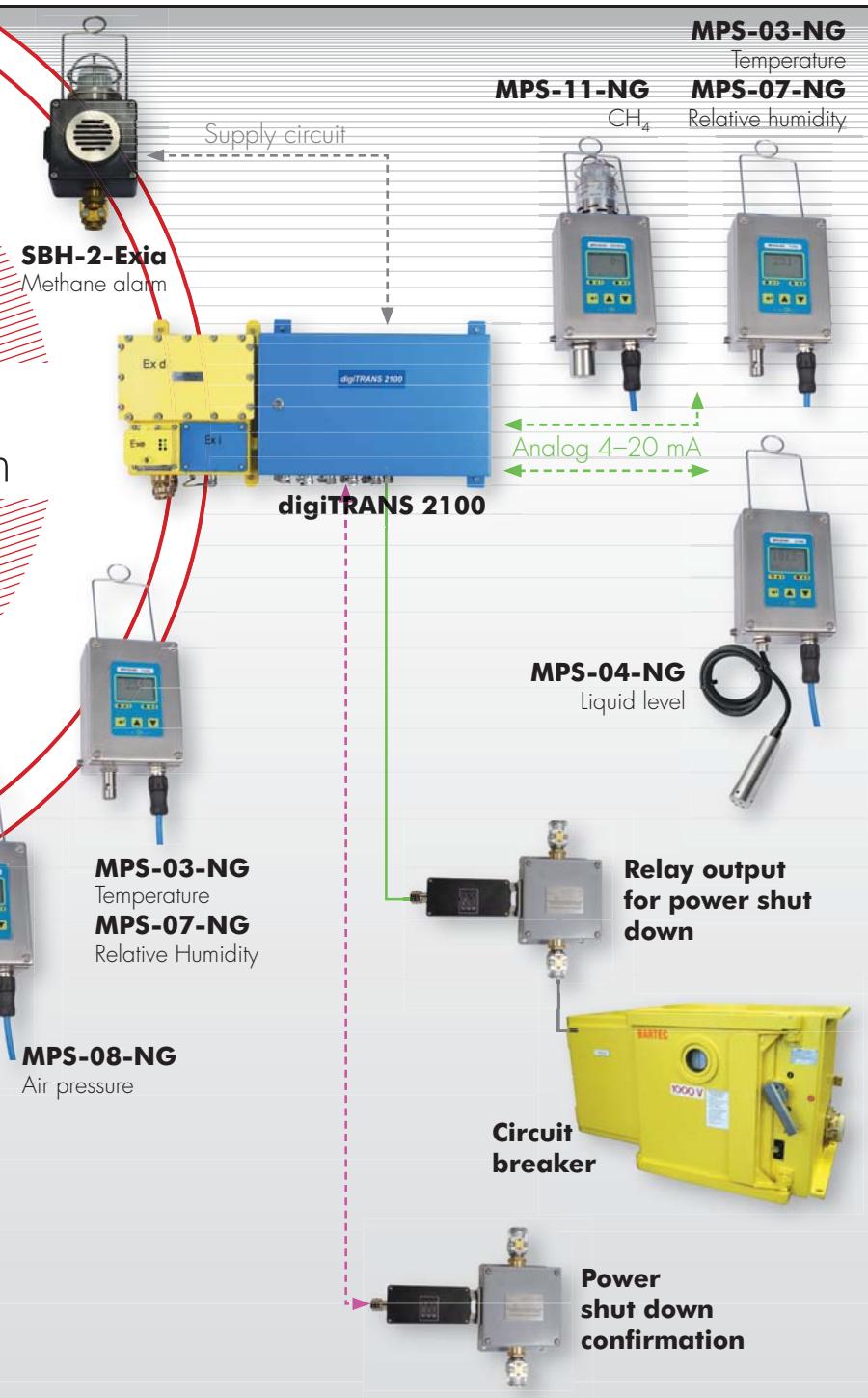
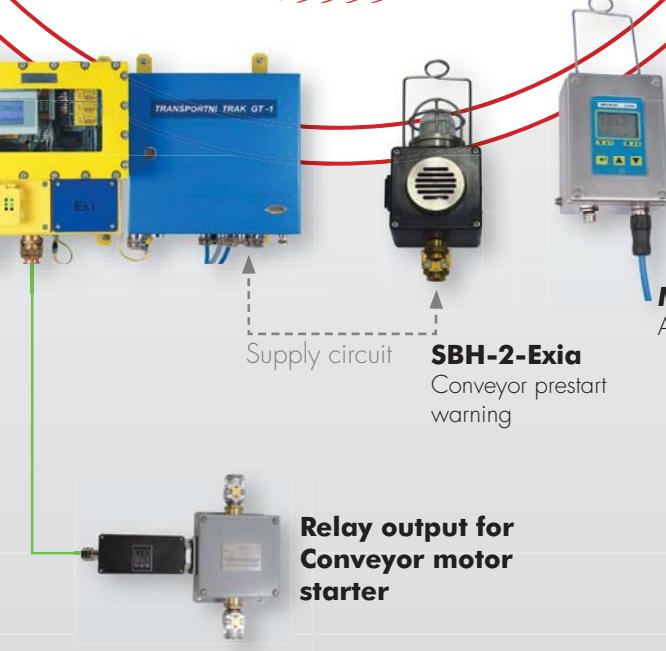
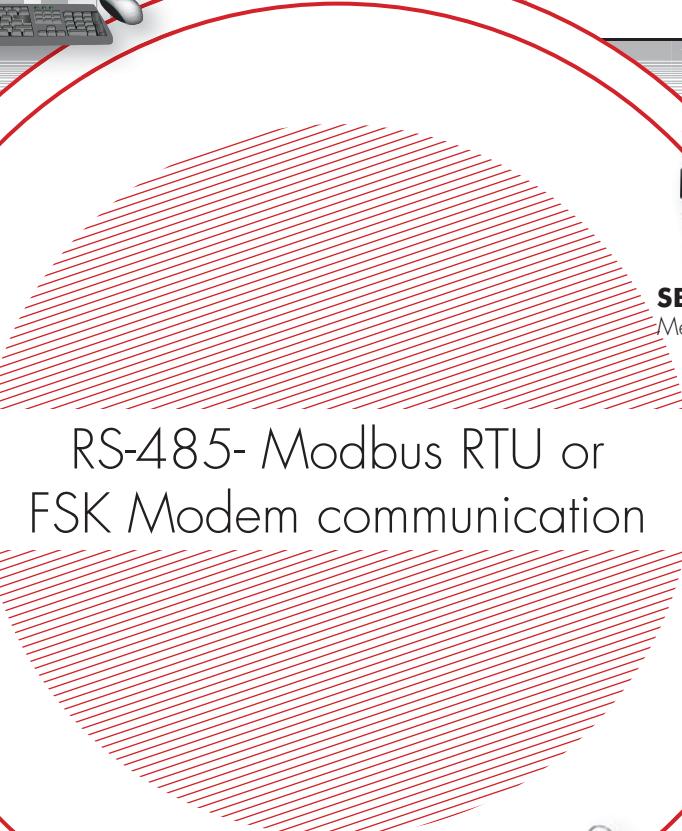
- **CONTROL UNITS**
- **FIXED GAS DETECTORS**
- **MEASUREMENTS DEVICES**
- **AUDIO/VISUAL DEVICES**
- **CAMERAS**
- **SYSTEM & CUSTOM SOLUTIONS**



↔ Internet      ↔ Analog 4–20mA      ↔ Supply circuit      — Relay output

— Ethernet      — RS-485- Modbus RTU      ↔ Digital input

# DIGITRANS CONTROL SYSTEMS & MINING VIDEO SURVEILLANCE



## MPS-11D-NG MPS-09-NG MPS-06-NG MPS-05-NG

Fixed Gas Detector  
 Different signal outputs  
 Optional RS 485 Modbus RTU communication  
 Intrinsically safe device  
 Optional connection via cable gland

Equipped with local display  
 Easy operation and maintenance  
 Wide range of sensors  
 Corrosion resistant stainless steel housing

**Gases Detected:** methane, carbon monoxide, oxygen, carbon dioxide, H<sub>2</sub>S

**Sensor Technologies:** infrared (IR), catalytic, electrochemical, semiconductor

**Power In/Output:** 9–15 VDC I.S./4–20 mA, 0.2–1mA, 0.4–2 V, 5–15 Hz

**Approvals:** ATEX, CE



## MPS-02-NG

Fixed Air Velocity Detector  
 Different signal outputs  
 Optional RS 485 Modbus RTU communication  
 Intrinsically safe device  
 Optional connection via cable gland

Equipped with local display  
 Easy operation and maintenance  
 Corrosion resistant stainless steel housing

**Detection:** air velocity  
**Sensor Technologies:** thermal velocity detection  
**Power In/Output:** 9–15 VDC I.S./4–20 mA, 0.2–1mA, 0.4–2 V, 5–15 Hz  
**Approvals:** ATEX, CE





## CAMEX-01-IP/FO

IP camera

Fiber optic connection (single mode, E2000 connection)

Main housing Ex d, Connection chamber Ex e, Signal output Ex op is

Easy operation and maintenance

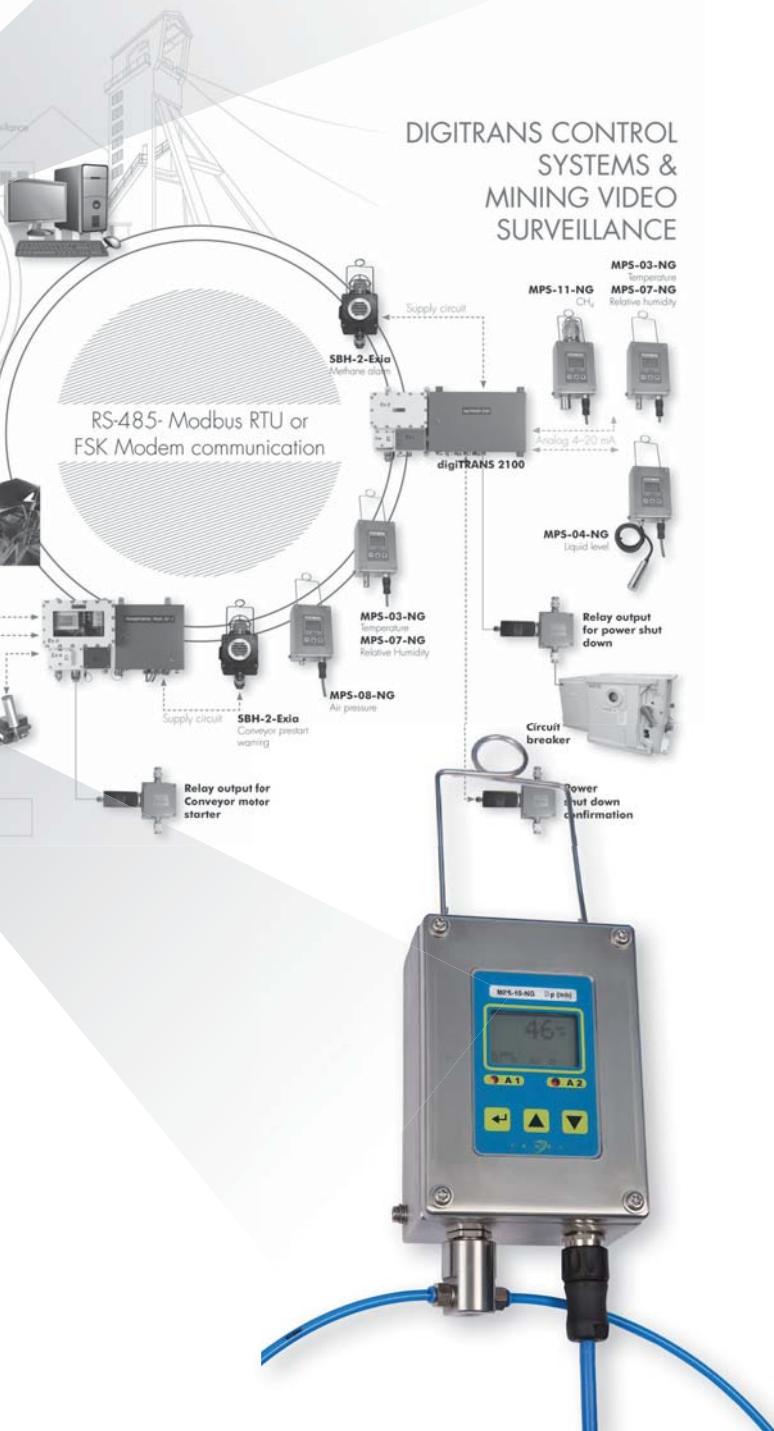
Remote managing

Robust housing

Picture transmission range > 15 km

Resolution: 2 MPixel

Supply voltage: 230 VAC, 50 Hz



## MPS-10-NG

Fixed Detector

Different signal outputs

Optional RS 485 Modbus RTU communication

Intrinsically safe device

Optional connection via cable gland

Equipped with local display

Easy operation and maintenance

Wide range of sensors

Corrosion resistant stainless steel housing

Detection: differential pressure

Sensor Technologies: piezoresistive sensor

Power In/Output: 9–15 VDC I.S./4–20 mA, 0.2–1mA, 0.4–2 V, 5–15 Hz

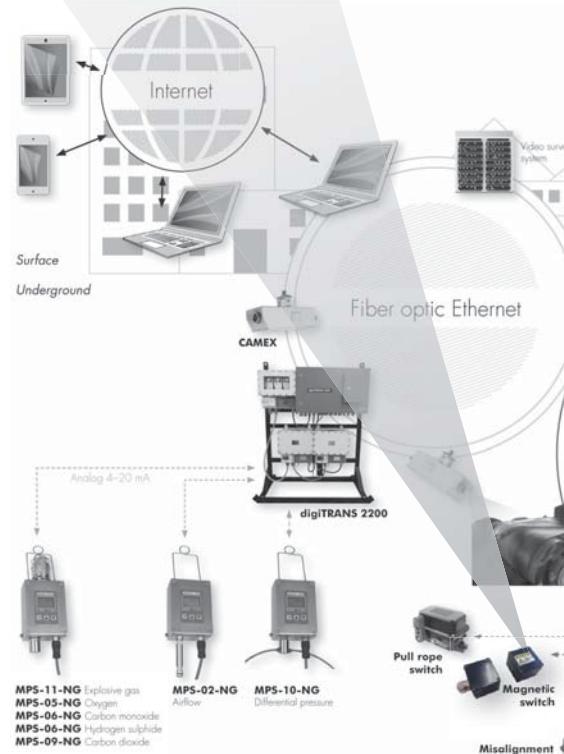
Approvals: ATEX, CE

## Magnetic switch

Fixed Magnetic switch  
 Changeover output  
 Intrinsically safe device  
 Optional connection via connector

Easy operation and maintenance  
 Reinforced polyester housing

**Detection:** status of mechanical devices (air doors)  
**Sensor Technologies:** reed relay  
**Switching capacity:** intrinsically safe: max. 30 VDC/  
 660 mA  
**Approvals:** ATEX, CE



## KLV-230-PEx

Control separation element  
 Direct connection to Ex d or Ex e housings  
 Line monitoring available

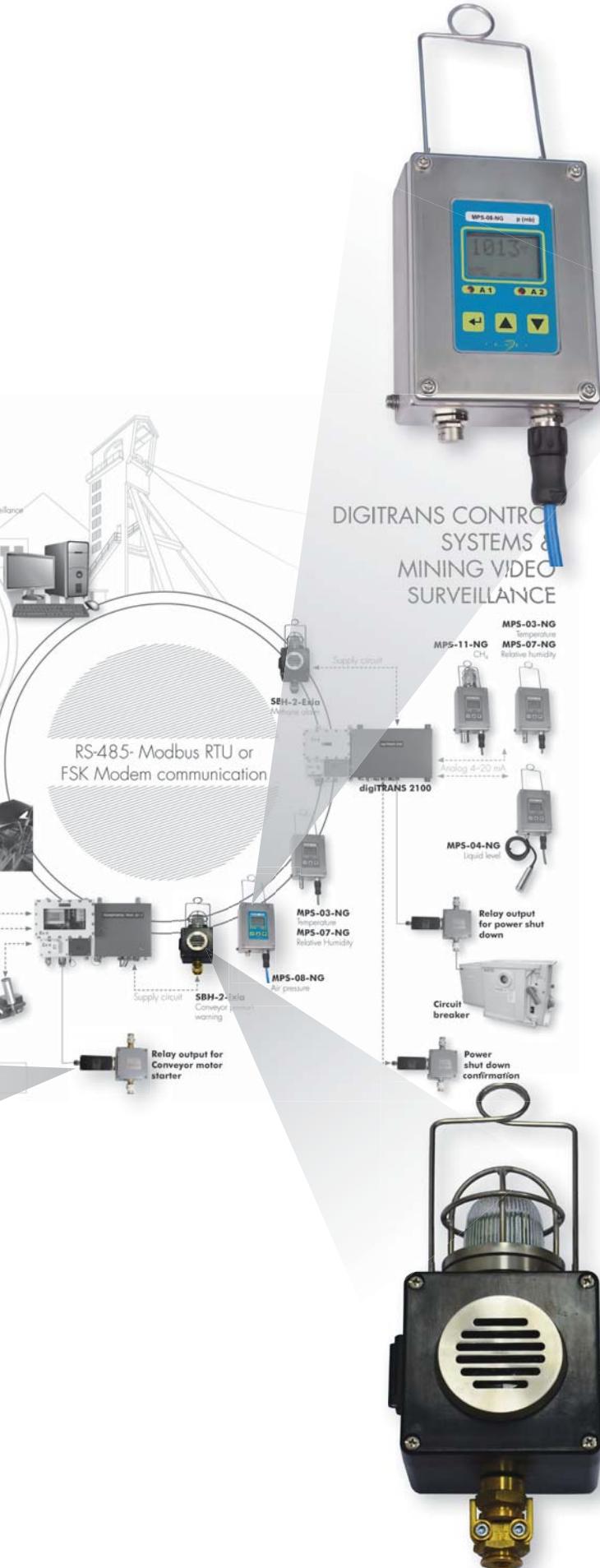
Status LED lights  
 Easy operation and maintenance  
 Reinforced polyester housing

**Switching capacity:** 2 relay outputs (max. 250 VAC/10A)

**Power In:**

- 24 VAC
- 42 VAC
- 115 VAC
- 230 VAC





## MPS-08-NG

Fixed Absolute pressure detector

Different signal outputs

Optional RS 485 Modbus RTU communication

Intrinsically safe device

Optional connection via cable gland

Equipped with local display

Easy operation and maintenance

Corrosion resistant stainless steel housing

**Detection:** Air Pressure

**Sensor Technologies:** Piezoresistive

**Power In/Output:** 9–15 VDC I.S./4–20 mA, 0.2–1mA, 0.4–2 V, 5–15 Hz

**Approvals:** ATEX, CE

## SBH-2-Exia

Signal flash Light with Alarm Horn

Intrinsically safe device

Optional connection via connector

Optional test button

Easy operation and maintenance  
Reinforced polyester housing

**Flash light:** LED (red, green, white, blue, yellow)

**Buzzer:** Piezzo 105 dB

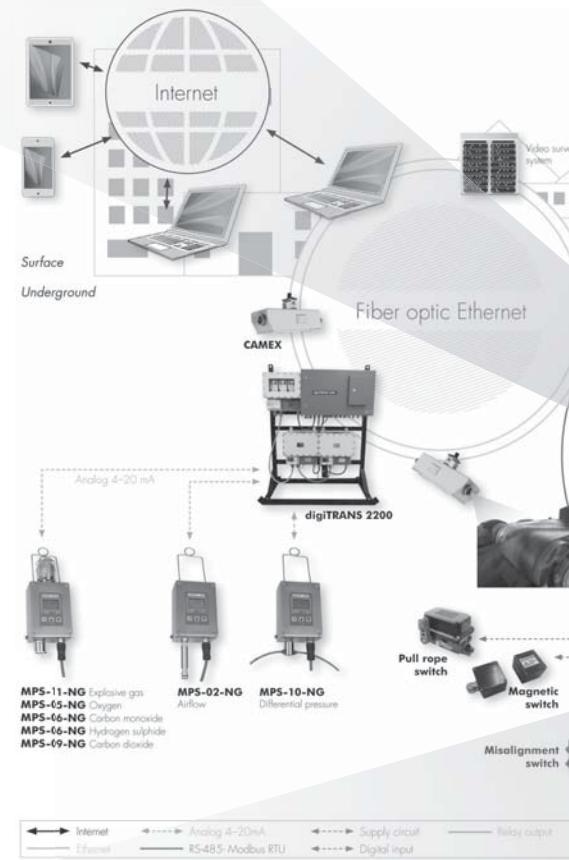
**Power In:** 9–16 VDC I.S.

## MPS-03-NG MPS-07-NG

Fixed Temperature and Relative Humidity Detector  
 Different signal outputs  
 Optional RS 485 Modbus RTU communication  
 Intrinsically safe device  
 Optional connection via cable gland

Equipped with local display  
 Easy operation and maintenance  
 Corrosion resistant stainless steel housing

**Detection:** Air Temperature and Relative Humidity  
**Sensor Technologies:** Temperature: Band gap,  
**Relative Humidity:** capacitive sensor  
**Power In/Output:** 9–15 VDC I.S./4–20 mA,  
 0.2–1mA, 0.4–2 V, 5–15 Hz  
**Approvals:** ATEX, CE



## MPS-04-NG

Fixed Level Transmitter  
 Different signal outputs  
 Loop powered detection element  
 Intrinsically safe device  
 Optional connection via cable gland

Equipped with local display  
 Easy operation and maintenance  
 Corrosion resistant stainless steel housing

**Detection:** liquid level  
**Sensor Technologies:** pressure sensor  
**Power In/Output:** 9–15VDC I.S./4–20mA,  
 0.2–1mA, 0.4–2V, 5–15Hz  
**Approvals:** ATEX, CE





## DigiTRANS Control Unit

DigiTRANS is underground control and alarm system, microprocessor controlled, mainly used for gas detection and automation. Different communication interfaces offers reliable communication with supervisory control and data acquisition system on the surface.

### Available communication interfaces:

- 6x Ethernet 100Mbit/s
- RS485 Modbus RTU
- FSK Modem communication

### Input/output:

4–20 mA, 0.4–2 V, 5–15 Hz

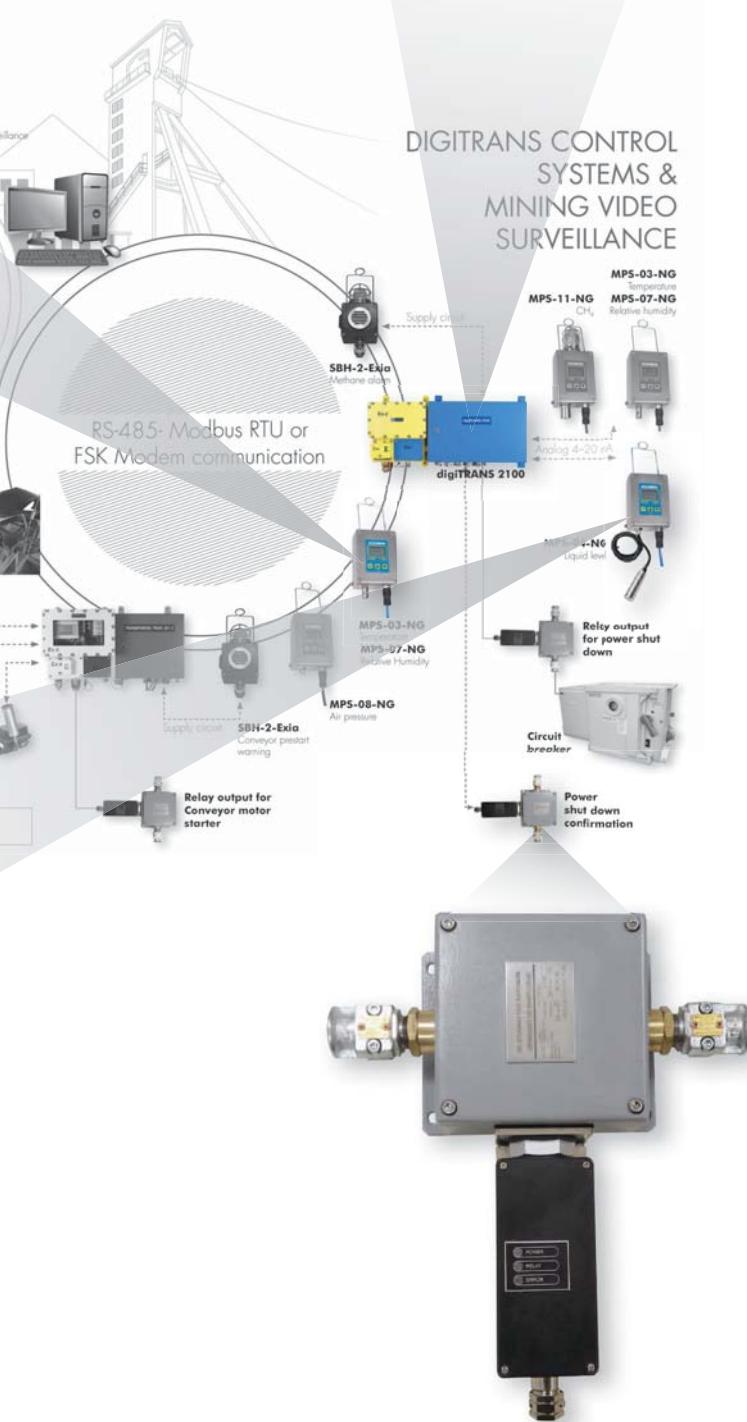
Digital inputs

Relay outputs

Supply: 230 VAC +/- 10% with 8h battery back up

### Features:

- Modular system
- Optional local color display
- Approvals: ATEX, CE



## PLV-230-PEx

Data separation element

Direct connection to Ex d or Ex e housings

Line monitoring available

Status LED lights

Easy operation and maintenance

Reinforced polyester housing

Intrinsically safe relay output

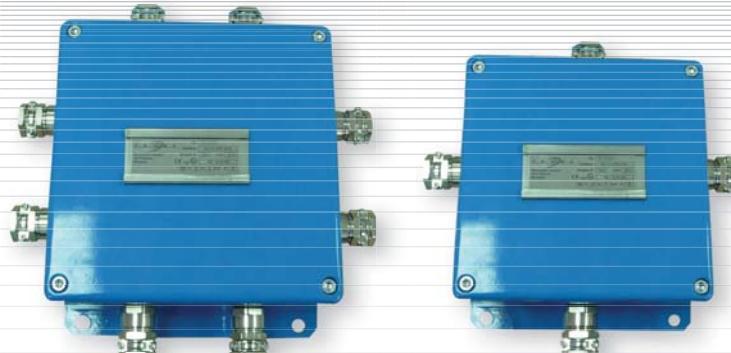
### Power In:

- 24 VAC
- 42 VAC
- 115 VAC
- 230 VAC

# INSTALLATION COMPONENTS

## Junction Box RO-x-Exia/ Junction Box JB-0x-Exia

- Sheet steel enclosure/Stainless steel enclosure
- Ex ia certified
- 4 enclosure size options
- Customizable configuration of terminals, cable entries and cable gland types

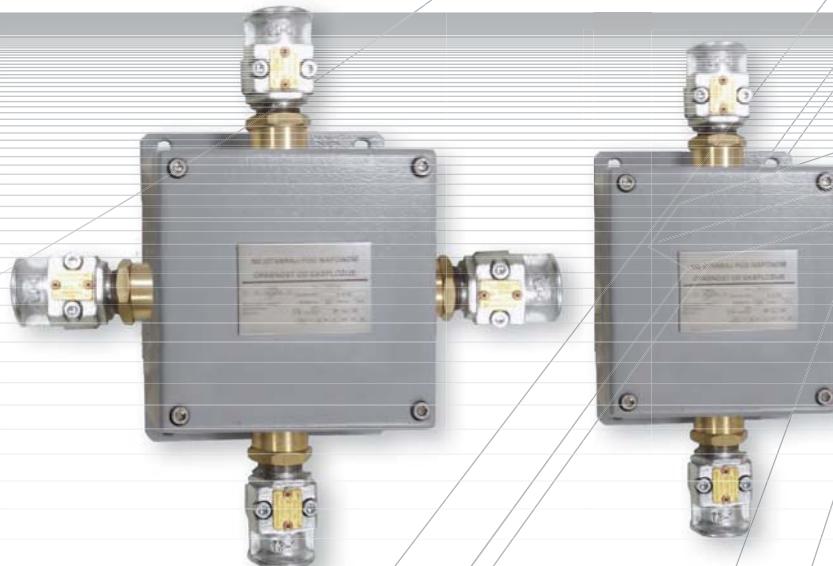


Approvals: ATEX, CE



## Junction Box RO-x-Exe

- Sheet steel enclosure
- Ex e certified
- 2 enclosure size options
- Customizable configuration of terminals, cable entries and cable gland types



Approvals: ATEX, CE



## Explosion proof floodlight **LUX-xx-L/x.x**

- Utilizes latest LED technology lamp type
- High quality LED module
- In excess of 50.000 hours LED life
- Wide supply voltage range
- Different colour temperatures available

Approvals: ATEX, CE



## Flameproof fluorescent light fitting **LUX-xxx-F**

- 4 different lamp wattage options lamp type
- Utilizes latest T5 fluorescent technology with electronic control gear
- High output T5 fluorescent lamp
- In excess of 24.000 hours life

Approvals: ATEX, CE

**OUR QUALITY – YOUR SAFETY**



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