

# TOXIC AND EXPLOSIVE GAS TRANSMITTERS

## enose® Technology



### DESCRIPTION

The DUST/DU and DUST/DY is a rugged, intelligent gas transmitter with a variety of Ex-Tox- gases.

#### Main Characteristic

- Microprocessor based
- 4-20 mA output
- Three Voltage free relay contacts
- RS485 digital interface
- LCD Display 8x2 characters
- Non Intrusive "One Person" calibration
- Fully programmable
- Small size
- Low Power consumption

## DUST-DU

### IP65 Aluminium body

Ideal for detect combustible gas and solvents  
Strong poison resistant properties

## DUST-DY

### IP65 Aluminium body with display

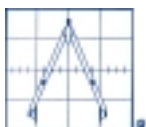
Robust construction  
Built-in or separate sensor transmitter  
Built-in relays enable full stand-alone capability



### MAIN SUBSTANCES LIST (Catalytic sensor)

SUBSTANCES	DESCRIPTION	Prod.cod.
Methane	General purpose catalytic sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST../101
L.P.G.	General purpose catalytic sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST../102
Propane	General purpose catalytic sensor for fixed detecting systems of explosive substances 0:100% L.E.L.	DUST../104
Ethanol	General purpose catalytic sensor for fixed detecting systems of explosive substances 0:100% L.E.L.	DUST../106
Gasoline vapor	General purpose catalytic sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST../110
Acetylene	Optimised catalytic sensor for the detection of C2H2 0-100% L.E.L.	DDUST../115
Hydrogen	Optimised catalytic sensor for the detection of H2 0-100% L.E.L.	DUST../127
Ammonia	Optimised catalytic sensor NH3 0-4% v/v 400 PPM sensitivity.	DUST../141

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## MAIN SUBSTANCES LIST (Chemical absorption sensor)

Ammonia	Chemical absorption sensor optimised for NH <sub>3</sub> 20-400 PPM	DUST/./40
Carbon monoxide	Chemical absorption sensor optimised for CO 20-500/1000 PPM	DUST/./20
Hydrogen cyanide	Chemical absorption sensor optimised for HCN 2-20 PPM	DUST/./63
Hydrogen chloride	Chemical absorption sensor optimised for HCl 0-20 PPM	DUST/./64
Chloride	Chemical absorption sensor optimised for Cl <sub>2</sub> 0-20 PPM	DUST/./65
Nitrogen dioxide	Chemical absorption sensor optimised for NO <sub>2</sub> 0-50/200 PPM	DUST/./66
Nitrogen monoxide	Chemical absorption sensor optimised for NO 0-200/400 PPM	DUST/./67
Nitrogen sulphide	Chemical absorption sensor optimised for H <sub>2</sub> S 0-100 PPM	DUST/./69
Sulphur dioxide	Chemical absorption sensor optimised for SO <sub>2</sub> 0-50/100 PPM	DUST/./70
Carbon Dioxide	Chemical absorption sensor optimised for CO <sub>2</sub> 20-500/1000 PPM	DUST/./79

### Outputs Configurations

Outputs	Description	Code
4-20 mA	Analog current loop	AA
3 Open Collector	Sink outputs 400 mA max.	OC
3 Relays	Voltage free contacts 0.5A 100 Vdc max.	CC

### SPECIFICATION

Sensors	Catalytic pellistor or chemical absorption cell
Location	Workplaces and industrial sites
Degree of protection	IP65
Short-term repeatability	±2% FSD 60 min.
Long-term repeatability	±5% FSD 3 months.
Accuracy(linearity)	±5% FSD

### Environmental Specification

EMC susceptibility	10V/m
Storage temperature	-40 to 85 °C
Operating temperature	-10 to 70 °C
Humidity range	100% R.H. n.c.

### Mechanical Specification

Overall dimensions	150x80x70 mm
Weight	0.5 Kg.
Mounting	4x 6 mm holes
Termination	PG-16 Terminal block

### Electrical Specification

Supply Voltage	10-30 Vdc
Power consumption	2 watts
Supply fuse	500 mA
Signal fuse	63 mA
Analog output	4-20 mA
Load	0-300 ohms
Cable Type	3 conductor cable

### Part number description

Body	Description	Substance Code	Output Configuration Code	
DUST/DU	IP 65 Alu Body	101	AA	Analog 4-20 mA
DUST/DY	IP 65 Alu Body with display	:	CC	Relay Contacts



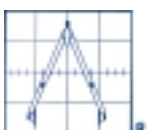
Example of composition of the Part number for a sensor for methane with display and relay contacts output  
cod. DUST DY/101/CC



Example of composition of the Part number for a sensor for ammonia with 4-20 mA analogue output  
cod. DUST DY/40/AA

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