


TOXIC AND EXPLOSIVE GAS TRANSMITTERS

DUST with enose® Technology

DESCRIPTION

Gas detectors DUST/AD and DUST/DY are rugged and intelligent gas transmitter for a variety of Ex-Tox sensors.


Main Characteristic

- Microprocessor based
- 4-20 mA output
- Three Voltage free relay contacts
- RS-485 MODBUS serial interface or  Bluetooth protocol for remote control and maintenance operations.
- LCD Display 8x2 characters
- Non Intrusive "One Person" calibration
- Fully programmable
- Small size
- Low Power consumption

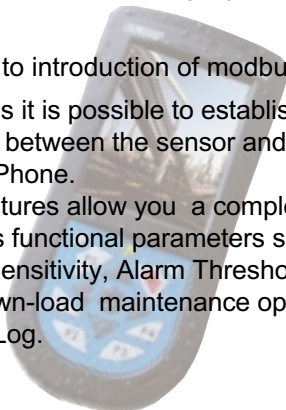
DUST-AD

IP65 Aluminium body

Ideal for detection of combustible gases and solvents
Strong poison resistant properties

Thanks to introduction of modbus or  Bluetooth protocols it is possible to establish a direct communication between the sensor and your PC, PDA or Mobile Phone.

This features allow you a complete control of all sensor's functional parameters such as Zero, Span, Sensitivity, Alarm Thresholds TWA, STEL and Down-load maintenance operations reports or events Log.



DUST-DY

IP65 Aluminium body with display

Sturdy construction
Built-in or remote sensor transmitter
Built-in relays enable full stand-alone capability

MAIN SUBSTANCES LIST (IR Infrared Technology)

SUBSTANCES	DESCRIPTION	Prod.cod.
Methane (CH ₄)	Infrared sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST/AD/201/...
Propane (CH ₃ CH ₂ CH ₃)	Infrared sensor for fixed detecting systems of explosive substances 0:100% L.E.L.	DUST/AD/204/...
Carbon Dioxide (CO ₂)	Infrared sensor for fixed detecting systems of toxic substances 0:100%Vol.	DUST/AD/279/...

MAIN SUBSTANCES LIST (Catalytic Technology)

Methane (CH ₄)	General purpose catalytic sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST/AD/101/...
L.P.G. (Mix)	General purpose catalytic sensor for fixed detecting systems of explosive substances 0-100%L.E.L.	DUST/AD/102/...
Propane (CH ₃ CH ₂ CH ₃)	General purpose catalytic sensor for fixed detecting systems of explosive substances 0:100% L.E.L.	DUST/AD/104/...
Hydrogen (H ₂)	General purpose catalytic sensor for the detection of H ₂ 0-100% L.E.L.	DUST/AD/127/...
Ammonia (NH ₃)	General purpose catalytic sensor NH ₃ 0-100% L.E.L.	DUST/AD/140/...
Ammonia (NH ₃)	High Quality catalytic sensor NH ₃ 0-2% v/v (0-20.000ppm)	DUST/AD/141S/...

Many other substances available, please contact us or visit our web site www.oggonisas.com

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MAIN SUBSTANCES LIST (Electrochemical Cells Technology)

SUBSTANCES	DESCRIPTION	Prod.cod.
Ammonia (NH3)	Electrochemical Cell for NH ₃ 0-100 / 0-500 / 0-1000 / 0-5.000 PPM	DUST/AD/340/...
Carbon monoxide (CO)	Electrochemical Cell for CO 0-300 / 0-1.500 PPM	DUST/AD/320/...
Nitrogen sulphide (H2S)	Electrochemical Cell for H ₂ S 0-30 / 0-100 PPM	DUST/AD/369/...
Oxygen (O2)	Electrochemical Cell for O ₂ 0-25% Vol.	DUST/AD/361/...
Chloride (Cl2)	Electrochemical Cell for Cl ₂ 0-10 PPM (only certified for ordinary locations)	DUST/AD/365/...

MAIN SUBSTANCES LIST (Chemical absorption Technology)

Ammonia (NH3)	Chemical absorption sensor optimised for NH ₃ 0-1.000 PPM	DUST/AD/440/...
Carbon monoxide (CO)	Chemical absorption sensor optimised for CO 0-100 / 0-300 PPM	DUST/AD/420/...
Nitrogen sulphide (H2S)	Chemical absorption sensor optimised for H ₂ S 0-20 PPM	DUST/AD/469/...
VOCs	Chemical absorption sensor optimised for VOCs 0-5.000 PPM	DUST/AD/471/...
Carbon Dioxide (CO2)	Chemical absorption sensor optimised for CO ₂ 0-10.000 PPM	DUST/AD/479/...

Outputs Configurations

Outputs	Description	Code
4-20 mA	Analog current loop	AAA
4-20 mA + RS485	Analog current loop	AAS
3 Relays + RS485	Voltage free contacts 0.5A 100 Vdc max. + Serial RS485 Modbus Protocol	CCS
3 Relays + 4-20mA + RS485	Voltage free contacts 0.5A 100 Vdc max. + Analog current loop + Serial RS485 Modbus Protocol	CAS

GENERAL SPECIFICATIONS

Sensors	Catalytic pellistor or electrochemical cells or Infrared 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 SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

Supply Voltage	10-30 Vdc
Power consumption	1 watt (AAA Version)
Supply fuse	500 mA
Signal fuse	63 mA
Analog output	4-20 mA
Load	0-300 ohms at 24Vdc
Cable Type	3 conductors cable (AAA Version)

PART NUMBER DESCRIPTION

Body	Description	Technology	Substance Code	Output Configuration Code
DUST/AD	Aluminium IP65	1 (Catalytic sensor)	01 (methane)	AAA Analog4-20mA
DUST/DY	Aluminium IP65	2 (Infrared sensor)	02 (L.P.G.)	AAS Analog 4-20mA + RS485
	Aluminium IP65	3 (Electrochemical cell)	27 (Hydrogen)	CCS Relay Contacts + RS485 (only RAS/AD body)
	Aluminium IP65	4 (Chem. Absorption sensor)	40 (Ammonia)	CAS Relay Contacts + 4-20mA + RS485 (only RAS/DY body)



Example: Part Number composition of gas detector with catalytic sensor for methane with analogue output 4-20 mA cod. **DUST/AD/101/AAA**



Example: Part Number composition of gas detector with electrochemical cell for ammonia with display and relay contacts output: Cod. **DUST/DY/340/CAS**

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