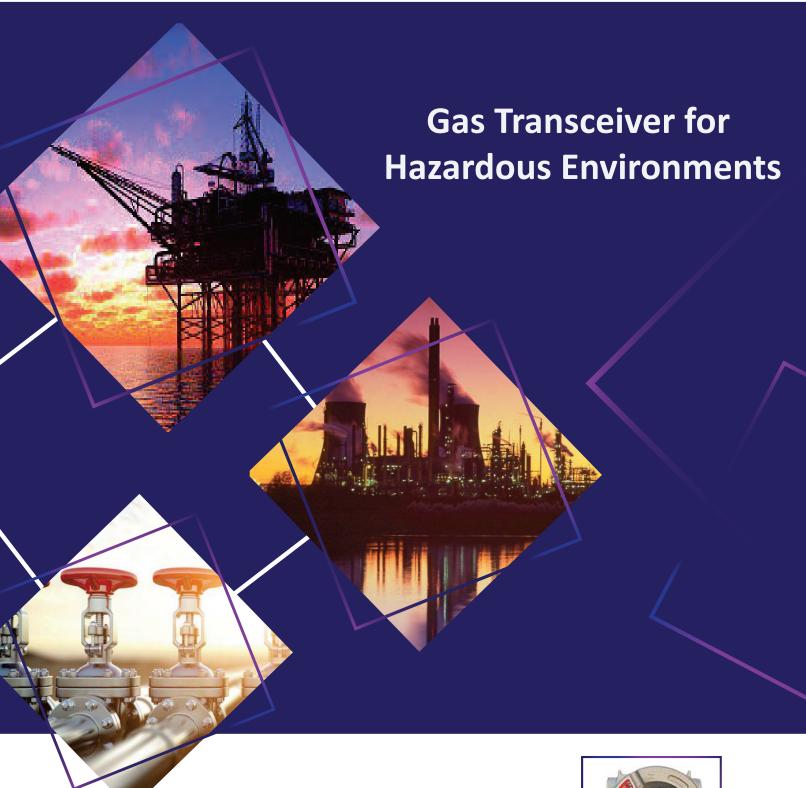


OGTR



Flammable, toxic and oxygen gas detector for industrial applications



OGTR Overview

Easy to use

- User friendly intuitive multi-color LCD data display
- Fully configurable via an android mobile application
- Optional remote sensor available when using Modbus digital sensor

Cost effective

- Minimal training required
- Non intrusive, one-person operation
- Sensor configuration and calibration done via a mobile application

Flexible input / output options

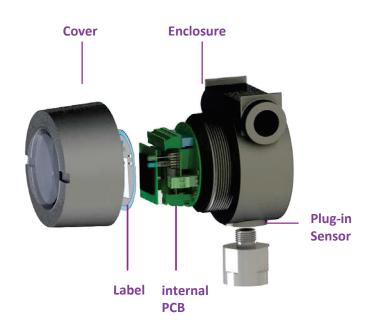
- 2 Possible connected sensors (electrochemical, infrared, or catalytic bead)
- Fully programmable alarm relays (dry contacts) 10A-250 VAC to 3 individually configurable alarm set-points for each plugged sensor (optional)
- 1 Analog output (0-20mA / 4-20mA /0-24mA/ 0-5V /0-10V) for mapping
- Modbus RTU over RS485 for remote settings, diagnostics, and configuration
- Visual indication over an RGB LED status
- Audible alert using 58dB buzzer

OGTR Detector is a complete standalone gas detection system designed to detect a wide range of toxic and flammable gases in potentially hazardous environments.

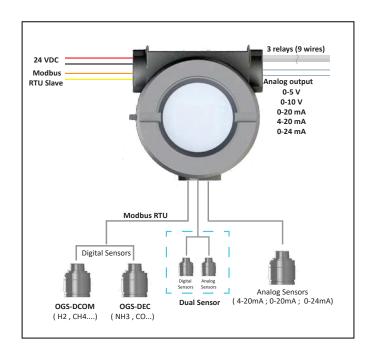
Wireless configurability and monitoring makes OGTR a non intrusive, easy to use solution that is ideal for various gas detection applications.

Typical applications

- Oil & Gas industries
- Water / wastewater treatment plants
- Pulp & paper mills
- Manufacturing facilities
- Chemical plants



OGTR Overview



OGTR Transceiver supports three types of inputs:

- **Digital input :** used with Electrochemical (O2,CO2,CO, H2S, NO2,CH2O,CL2,NO,CO2); Catalytic (C4H10, H2,CH4,C3H8) and Infrared (Refrigerant) sensor/Transmitter technologies.
- Analog input: supports Electrochemical (O2,CO2,CO, H2S, NO2,CH2O,CL2,NO,CO2) and Infrared(Refrigerant) sensor/transmitter technologies.
- Dual input: supports both digital and analog inputs.

Technical Specifications

Electrical

POWER SUPPLY		
Power Supply	18V-36V MAX (+24VDC Nominal)	
Total Power Consumption	2W MAX (When 2 sensors are plugged)	
Inrush Current	300mA MAX	
AVAILABLE SENSOR TECHNOLOGIES		
OGS-A420	Analog 4-20 mA- Combustible 0 – 100%LEL	
OGS-DCOM	Digital Modbus RTU- Combustible 0 – 100%LEL	
OGS-EC3	Digital Electrochemical 0 – 100PPM	
OGS-NDX	Digital NDIR 0 – 10000PPM	
invironmental		
Operating Temperature	-40°C to 80°C	
Operating Humidity	0% to 90°%	

OGTR Overview

OGTR displays data using the built in LED screen or via the OGTR mobile app:

OGTR STATUS	Built In Display	Mobile App	
NORMAL	• Gas level indication : green • Relay status indication	CH4 9 23.1 NIEL	
ALARM	• Gas level indicatio:orange • Relay status indication	Analog Sensor CH4 23.1 %LEL	
ALERT	• Gas level indicatio:red • Relay status indication	Acolog Sensor CH4 23.1 NLEL	

Check operation manual for more details about OGTR mobile app

OGTR Mobile app



OGTR mobile application is an android interactive HMI that enables users to pair the OGTR with their mobile phone. Users can perform many tasks related to system configuration, calibration, diagnostics, and maintenance.



Mobile app features

- Ping/ silence and find the transceiver.
- Auto-detect sensor information and on-site calibration.
- Real-time monitoring of sensor(s).
- Relay output configuration and mapping.
- Analog output configurations and mapping.
- Hardware diagnostic and maintenance.
- OTA firmware updating.

OGTR Application

OGTR is applicable to a variety of industries :

ENVIRONMENT



Chemical Plants



Oil and Gas



Power Stations



Boiler Rooms



Hospitals



Waste Water Treatment



Towers

Specific Area

- Raw material storage
- Process areas
- Laboratories
- Pump skids
- Compressor stations
- Loading/unloading areas
- Exploration drilling rigs
- Production platforms
- Onshore oil and gas terminals
- Refineries
- Around the boiler pipework and burners
- Turbines
- Coal silos and conveyor belt areas in older coal/oil fired stations
- Boiler and gas piping
- Incoming gas main
- Laboratories
- Refrigeration plants
- Boiler rooms
- Pumps
- Plant sumps
- Digesters
- H₂S scrubbers

Boiler rooms

• Chillers

Gases Present

- General Hydrocarbons
- H₂S
- NH₃
- O₂
- General Hydrocarbons
- H₂S
- CO
- O₂
- Flammable
- CH4
- H2
- O₂
- General Hydrocarbons
- H₂S
- CO
- O₂
- General Hydrocarbons
- H₂S
- O₂
- CO
- General Hydrocarbons
- H₂S
- CO
- O₂
- General Hydrocarbons
- H₂S
- CO
- CO₂

OGTR Supported gas sensors

Gas		Snsor Technology	Range	Sensor Lifespan	Coverage Radius
Combustible					
Butane	C4H10	Catalytic bead	0-60% LEL	>3 years	20 ft . (6m)
Hydrogen	H₂	Catalytic bead	0-60% LEL	>3 years	20 ft . (6m)
Methane	CH₄	Catalytic bead	0-60% LEL	>3 years	20 ft . (6m)
Propane	C₃H₅	Catalytic bead	0-60% LEL	>3 years	20 ft . (6m)
Oxygen Deficiency					
Oxygen	O ₂	Electrochemical	0-25%	>5 years	20 ft . (6m)
Refrigerant					
Refrigerant	R-407C	Infrared	0 - 1000 ppm	>10 years	20 ft . (6m)
Refrigerant	R-134A	Infrared	0 - 1000 ppm	>10 years	20 ft . (6m)
Refrigerant	R-410A	Infrared	0 - 1000 ppm	>10 years	20 ft . (6m)
Refrigerant	R-404A	Infrared	0 - 1000 ppm	>10 years	20 ft . (6m)
Refrigerant	R-22	Infrared	0 - 1000 ppm	>10 years	20 ft . (6m)
Toxic					
Ammonia	NH₃	Electrochemical	0 - 1000 ppm	>2 years	20 ft . (6m)
Carbon dioxide	CO ₂	Infrared	0 - 5000 ppm	>10 years	50 ft . (6m)
Carbon monoxide	CO	Electrochemical	0 - 200 ppm	>2 years	50 ft . (6m)
Hydrogen sulfide	H₂S	Electrochemical	0 - 20 ppm	>3 years	20 ft . (6m)
Nitrogen dioxide	NO ₂	Electrochemical	0 - 10 ppm	>2 years	50 ft . (6m)
Formaldehyde	CH₂O	Electrochemical	0 - 10 ppm	>2 years	20 ft . (6m)
Chlorine	CL2	Electrochemical	0 - 10 ppm	>2 years	20 ft . (6m)
Nitric oxide	NO	Electrochemical	0 - 250 ppm	>2 years	20 ft . (6m)
Sulfur dioxide	SO ₂	Electrochemical	0 - 2000 ppm	>2 years	20 ft . (6m)

Other GASES and RANGES are available.



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