## T3A Gas Detector



## **Features**

- Electrochemical, Infrared or catalytic bead sensors
- Wire powered (3-Wire), 12 to 35 VDC operating voltage
- Operating temperature range -40°C to +54°C
- LCD display with LED back-light
- 3 Push-button interface (ADD, MENU, SUB)
- Non-intrusive buttons using magnetic wand
- 2 Individually configurable alarms
- · 2 Front panel LED indicators (amber and red)
- 2 Optional fully programmable alarm relays (dry contacts)
- Output options: 4-20mA (3-wire) analog, RS-485 Modbus, both standard

## Industry Applications

- · Petrochemical plants, Refineries
- · Water & wastewater treatment plants
- Pulp & paper mills
- Manufacturing facilities
- Chemical plants

The T3A Series Gas Detector ambient air haz-
ardous gas detector is a versatile assembly
that uses an electrochemical, infrared, catalyt-
ic bead sensor element to detect a variety of
gases. Wired power (12 to 35 VDC) with 4-20
mA analog and RS-485 Modbus outputs stan-
dard. Magnetic switches allow for non-intrusive
calibration while in the field as well as full sys-
tem settings and diagnostics.

Gas Type	Range	T <sub>90</sub>	Hazard Classification
LEL Catalytic	0 - 100% (0-5% Vol.)	< 90 sec.	Class 1, Div 1
CL2	0 - 10 ppm	< 60 sec.	Class 1, Div 2
CLO2	0 - 1 ppm	< 120 sec.	Class 1, Div 2
CO	0 - 300 ppm	< 30 sec.	Class 1, Div 1
CO2	0 - 5% vol.	< 30 sec.	Class 1, Div 1
ETO	0 - 10 ppm	< 120 sec.	Class 1, Div 2
H2S	0 - 100 ppm	< 30 sec.	Class 1, Div 1
H2S 2K	0 - 2000 ppm	< 25 sec.	Class 1, Div 1
HCL	0 - 30 ppm	< 300 sec.	Class 1, Div 2
HCN	0 - 30 ppm	< 70 sec.	Class 1, Div 2
HF	0 - 10 ppm	< 90 sec.	Class 1, Div 2
LEL-IR	0 - 100% (0-5% Vol.)	< 30 sec.	Class 1, Div 1
LEL-IR-HC	0 - 100% LEL	< 30 sec.	Class 1, Div 1
NH3	0 - 100 ppm	< 90 sec.	Class 1, Div 2
NH3 300	0 - 300 ppm	< 120 sec.	Class 1, Div 2
NH3 A	0 - 1000 ppm	< 120 sec.	Class 1, Div 2
NO2	0 - 20 ppm	< 25 sec.	Class 1, Div 2
O2	0 - 25 Vol.	< 15 sec.	Class 1, Div 1
PH3	0 - 5 ppm	< 30 sec.	Class 1, Div 2
SO2	0 - 20 ppm	< 35 sec.	Class 1, Div 1



## Marine Maju Mandiri

Product Specifications				
Sensor Type		Electrochemical, infrared, catalytic bead		
Operating Voltage		Wired power (3-Wire) 12 to 35 VDC		
Power Draw		2 Watts maximum		
Protection		Power electromagnetic interference (EMI) filter 4-20 mA surge suppression RS-485 surge suppression		
Display Screen		102x64 Resolution graphical LCD screen transflective (sunlight readable) with white LED backlight		
Interface		3 Push-buttons (MENU, ADD and SUB) 3 Magnetic non-intrusive switches for calibration		
Customizable Settings		2 Individual-configurable alarm LED/relay set-points		
Temperature Range		-40°C to +54°C (-40°F to +129°F)		
Output (digital)		RS-485 modbus		
Wired (Analog) Output		4-20 mA (3-Wire) Fault terminal, wet relay contact. Has it's own power. Optional 2 dry-contact relays with replaceable 4 amp fuses		
Product Dimensions		5.5 in, L x 6 in. W x 7 in. H (8 in. W x 17 in. H Max. dimensions with attachments)		
Total Weight		6 lbs.		
Remote Sensor Kit (Optional Additional Feature)		Remote sensor kit with enclosure (5 pin)  • Electrochemical sensor max. length: 250 feet  • Infrared sensor max. length: 40 feet  • Catalytic bead sensor max. length: 15 feet		
Location /als	Main Enclosure	Certified explosion / flame proof <sub>C</sub> QPS <sub>US</sub> Class I, Division 1 & 2, Groups B, C & D Nema 3, 4, 4X, 7 (B, C, D) 9 (E, F, G) Temp.= -20°C to +60°C		
Hazardous Location Approvals	Sensor Housing	Certified explosion / flame proof <sub>C</sub> QPS <sub>US</sub> Class I, Division 1 & 2, Groups B, C & D Temp.= -40°C to +60°C Note: Certification only applies to some gases. Toxic gases not certified for Div. 1 locations are suitable for Div. 2 applications but have no third party approval.		
Controllers		Controllers compatible with all RKI Beacon controllers, as well as most DCS / PLC systems: Beacon 110, Beacon 200, Beacon 410A, Beacon 800, and MC-6400		
Warra	nty	1-Year warranty for electronics and sensor		

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