# Model TA-2100 smarter
## PID VOC Gas Detector

### Features
- **no false alarms** PID Photo-Ionization sensor technology
- Self-Calibration adjusts monthly based on sensor life curve
- Auto-Gas Calibration, non-intrusive, hands-free, magnetic switches
- Not affected by temperature -40°C to +55°C, stable by design
- LCD display - 12 characters x 2 lines - provides user interface with magnetic switches - no dip switches - LED alarm indicators
- Offsite sensor calibration with memory chip embedded in sensor
- Peak Value, 15-min. TWA, Remaining Sensor Life, Replace Sensor indication and number of days since last gas calibration
- Optional Relay Module; low, mid, high and fault conditions
- Optional RS-485 Modbus RTU Network interface
- Advanced diagnostics - continuous on-board systems monitoring

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### Specifications
- Detection Principle: PID Photo-Ionization
- Detection Method: Diffusion or Sample Drawing
- Detection Range: 0 - 400 ppm (parts-per-million)
- Calibration Method: Non-intrusive, magnetic tool
- Operating Voltage: 12 - 30 VDC, 24 VDC nominal
- Power Requirements: 1.82 W @ 24 VDC
- Electrical Connections: Power (24 VDC) and Signal (4-20mA)
- Cable Requirements: 3 or 4 wires, shielded
- Optional Connections: RS-485 Half-duplex (Modbus RTU)
- Resolution: 1 ppm minimum detection level
- Zero Drift: less than 1% of full-scale
- Temperature Range: -40°C to +55°C
- Humidity Range: 0 - 99%RH, non-condensing
- Response Time: <30 sec. to 90% of final reading
- Recovery Time: <30 sec. to 90% recovery
- Lamp Service Life: 18 mos. typical; depends on conditions
- Electronic Enclosure: Ex-Proof, alum. or 316 SS, Nema 4x
- Certifications: UL, Class I, Division 1, GR B,C,D

### Applications
- Chemical Processing
- Degreasing
- Cleaning Solvents
- Disinfectants
- Laboratories
- Paints & Varnishes
- Pesticides
- Industrial Emissions

Specifications subject to change without notice due to continued program of product innovation.

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Toxic • LEL Combustible • Oxygen • VOCs • Hydrides • Hydrocarbons
Gas Detection • no false alarms • Fire Detection

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