GC804 NOVA-Sensor ELITE

Catalytic Combustible Gas Detector
Self-Contained and Explosion-Proof

The SST Model GC804 Combustible Gas Detector is a highly versatile and reliable industrial gas detector designed for the toughest job and able to be used in the harshest environments. This detector uses a catalytic poison resistant sensing element which provides accurate measurements in atmospheres where traces of silicone or other poisoning agents may be present and provides excellent long-term zero and sensitivity stability. Readings are unaffected by humidity or carbon dioxide.

The bright LCD screen on the detector continuously displays the operating status and the actual concentration of gas in percentage of the Lower Explosive Limit (%LEL). This reading is converted to a standard 4-20 mA signal, which may be connected to any remote device for remote display or logging. Relay contacts are provided which are activated when the gas concentration exceeds the LOW ALARM and HIGH ALARM set points. Typical set points are adjusted by the installer upon installation and may be reset later by authorized personnel. The relays are suitable for controlling local HVAC equipment, alarm signal devices or for equipment shutdown. Fault relay contacts are also available which operate upon loss of power or internal failure of the unit.

FEATURES & BENEFITS

- Catalytic sensor with excellent long term zero and sensitivity stability and high poison resistance
- 4-20 mA output for connection to external equipment
- User programmable LOW alarm and HIGH alarm settings
- Voltage-free dry contact relays for local control
- Explosion-proof approved electronics housing Class I, Group A, B, C, D
- Explosion-proof approved sensor housing - ATEX listed or ATEX and CSA listed
- Available up to IP66 rating
- Bright LCD screen displays target gas concentration in % LEL
- Magnetic switch initiates test or calibration sequence
- Built-in automatic sensor replacement/maintenance and calibration reminder
- Step-by-step on-screen calibration instructions for ease of use and maintenance
- Shipped fully assembled and pre-calibrated
- Available with wireless transmitter as an accessory with text, e-mail notifications feature
- 5 Year Warranty
- Made in USA

TYPICAL GASES

- For ALL combustible gases
- Hydrogen
- Methane
- Butane
- Propane
- Ethane
- Pentane
- Hexane
- Heptane
- Octane
- Gasoline (Petrol)
- Methanol
- Ethanol
- Acetone
- Toluene
- Isopropyl Alcohol
- Cyclohexane
- Methyl Ethyl Ketone
- Ammonia (LEL)
**Model GC804 Combustible Gas Detector**

### SYSTEM SPECIFICATIONS

- **Sensor Type:** Catalytic bead with excellent long term zero and sensitivity stability
- **Poison Resistance:** Highly Resistant
- **Gases Detected:** Most combustible gases and vapors
- **Sensor Life:** Typical 5+ years
- **Measuring Ranges:** 0-100% LEL
- **Accuracy:** +/- 1% LEL(CH₄)
- **Zero Drift:** < +/- 1/2 mV/Month
- **Linearity:** Effectively Linear to 100% LEL (to within 5%)
- **Response Time:** T₉₀ < 30 seconds
- **Modes:** Normal operation, set-points, calibration, set-up
- **Warranty:** 5 years
- **Approvals:** Explosion-proof approved housing Class I, Division I, Groups A B C D; Class I, Zone I, AEx d IIC; Type 4X

### ELECTRICAL SPECIFICATIONS

- **Input Power:** 24 VDC nominal, 16 to 32 VDC
  92 mA standby, 120 mA alarm
- **Relay Contact Ratings:** 6 amps @ 28 VDC or 300 VAC resistive
  1/8 HP @ 120/240VAC
- **Analog Signal:**
  - Malfunction: 0 mA
  - Setup Mode/Calibrate: 4 mA
  - Zero Reading: 4 mA
  - 0-100% LEL: 4-20 mA
  - Over-range: > 20 mA
- **Display:**
  - Graphic Liquid Crystal Display
  - Displays target gas concentration in % LEL;
  - Flashing screen in alarm mode;
  - Low brightness setting in power save mode
- **Field Connections:**
  - 4-20 mA output - three-wire shielded cable
  - All other connections: 22 AWG (.35 mm) to 12 AWG (4.0 mm)
- **Wireless Communication:** Available with optional wireless transmitter with text, e-mail notification features

### ENVIRONMENTAL SPECIFICATIONS

- **Operating Temperature:**
  - Electronics: -40°F to 185°F (-40°C to 85°C)
  - Sensor: -40°F to 266°F (-40°C to 130°C)
- **Operating Humidity:** 0-100% RH, non-condensing
- **Ingress Protection:** IP40 to IP66

### MECHANICAL SPECIFICATIONS

- **Dimensions:** 6.4 x 5.7 x 4.3 inches (163 x 145 x 109 mm)
- **Weight:**
  - 4.0 lbs. (1.8 kg) Aluminum;
  - 10.0 lbs (4.5 kg) Stainless Steel
- **Controller Housing:** Aluminum or Stainless Steel
- **Sensor Housing:** Stainless Steel

Specifications subject to change without notice.