

# HAZARDOUS LOCATIONS



## PERSONAL COMBUSTIBLE GAS MONITOR

### MODEL 101

#### DESCRIPTION

The **Model 101 Personal Combustible Gas Monitor** is the ideal device for working in battery rooms, combustible gas storage and processing areas, refineries, laboratories, and other areas where the potential exists for a flammable concentration of gas in the air. This handy unit produces an unmistakable 90 dB modulating tone whenever the level of combustible gas rises above its set point. A heavy-duty "memoryless" NiCad battery provides a minimum of 24-hour use on a single charge. An earphone is included for use in especially noisy areas, along with a calibration cap and tubing. The **Model 101C** charger accessory will fully charge the unit in less than two hours. This device is ideal for proving an atmosphere safe before opening explosionproof enclosures that may contain energized equipment.

#### FEATURES

- *Intrinsically safe, Class I, Division 1, Groups A, B, C, D (IEC Ex ia)*
- *Five-minute calibration*
- *90 dB alarm tone*
- *Key sequence required to turn off to protect against accidental disabling of the monitor*
- *24-hour operation without recharging*
- *Handy stainless steel belt clip*
- *LED status indicator – on, service required, alarm*
- *Corrosion and water resistant*



101C



101

#### DIMENSIONS / OPERATION

<b>Dimensions</b>	6.5"L x 2.1"W x 1.25"D (16.7 x 5.5 x 42 cm)
<b>Operation</b>	Complete operation and maintenance instructions included with each shipment

**CAUTION:** User calibration is recommended initially and at 90-day intervals to provide safe and successful operation of the Model 101 personal combustibles monitor. Read the instruction manual carefully to provide proper operation.

#### SPECIFICATIONS

<b>Sensor type</b>	Catalytic combustion bead pair	<b>Battery life</b>	24-hour min per charge
<b>Gas detected</b>	All combustibles	<b>Charge time</b>	2 hrs max
<b>Range</b>	0% to 100% LEL (equivalent to 0% to 5% methane)	<b>Protection</b>	Water, shock, and sensor poison resistant
<b>Alarm point</b>	Set by user at calibration (20% LEL recommended)	<b>Agency approvals</b>	CE, CSA approved; OSHA recognized Ex ia intrinsically safe for Class I, Div 1, Groups A, B, C, D
<b>Response time</b>	10 sec to 50% of final value	<b>Weight</b>	
<b>Temp range</b>	-13° to 140°F (-25° to 60°C)	<b>101</b>	0.9 lb (0.4 kg)
<b>Humidity</b>	0% to 95% noncondensing	<b>101C</b>	2.6 lb (1.2 kg)
<b>Alarm</b>	90 dB 5 kHz modulating plus flashing red LED		

#### ORDERING INFORMATION

<b>MODEL</b>	<b>DESCRIPTION</b>
101	Personal Combustible Gas Monitor
101C	Battery Charger with AC Adapter
GAS-CH4-1	1% Methane in Air Calibration Gas (20% LEL), 17L
UCK-1	Universal Calibration Kit with Regulator for Non-Corrosive Gases