

# Chubb GasSense

## Fire Systems

Prevent Fire | Detect Fire | Contain Fire | Escape Fire

### Product

## Chubb GasSense Gas Detection Systems



### System Benefits

**Chubb GasSense advanced gas monitoring systems offer robust, easy to use, cost effective monitoring of a range of toxic gases, combustible gases and oxygen in a wide range of applications where safety is paramount.**

- Microprocessor controlled and user programmable
- Advanced digital readout
- Digital signal processing significantly reduces false alarms
- Automatic self test
- Built-in battery back-up circuit

**Available Gases** To cover a wide range of applications. Please consult us for other gases not listed.

Toxic Gas Range	CO	H <sub>2</sub> S	SO <sub>2</sub>	NO	NO <sub>2</sub>	H <sub>2</sub>	Cl <sub>2</sub>	HCN	HCl	NH <sub>3</sub>	O <sub>3</sub>	C <sub>2</sub> H <sub>4</sub> O	O <sub>2</sub>
Infrared Gas Range	CO <sub>2</sub>		CH <sub>4</sub>			CO							
Combustible Gas Range Examples include	n-Butane C <sub>4</sub> H <sub>10</sub>	Ethane C <sub>2</sub> H <sub>6</sub>	Ethylene C <sub>2</sub> H <sub>4</sub>	Hydrogen H <sub>2</sub>	Methane CH <sub>4</sub>	n-Pentane C <sub>5</sub> H <sub>12</sub>	Propane C <sub>3</sub> H <sub>8</sub>						

# Chubb GasSense

## Product Range

### Gas Monitors



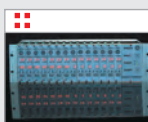
#### Single Channel Gas Monitor

The Chubb GasSense Single Channel Gas Monitor is a compact, wall mounted controller designed for use with the GS100T toxic detector, GS500N combustible detector, GS100IR infrared detector or third party gas detectors.



#### 4 Channel Gas Monitor

The Chubb GasSense 4 Channel Gas Monitor is designed to operate in conjunction with the GasSense GS100T toxic gas detector and the highly successful GS500N combustible gas sensor to monitor a range of toxic gases, combustible gases and oxygen in a wide range of applications.



#### Multichannel Gas Monitor

The Chubb GasSense Multichannel Gas Monitor is available with two 3-U digital control cards; one for use with the GS100T 4-20mA toxic detector and the other for use with the GS500N combustible detector.



#### 8 Channel Multipoint Gas Sampler

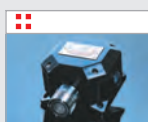
The Chubb GasSense GS100SS is an 8 channel Multipoint Gas Sampler designed to multiplex gas samples from up to eight separate locations in a wide range of applications into a single GS100IR gas detector.

### Gas Detection



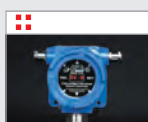
#### GS100T Toxic gas Detector

The Chubb GasSense GS100T is a 4mA 2-wire transmitter designed to measure a wide range of gases. Gases monitored include CO, H<sub>2</sub>S, NO, H<sub>2</sub>, HCl, NO, H<sub>2</sub>, HCl, O<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>O, NH<sub>3</sub>, O<sub>3</sub>, PH<sub>3</sub>, F<sub>2</sub>, HF and Hydrides.



#### GS500N Combustible Gas Detector

The GS500N Combustible Gas Detector is a rugged stainless steel sensor that has been designed to detect combustible gases and solvents for areas where gas detection is critical to plant safety.



#### GS500IN Intelligent Gas Sensor

The Chubb GasSense GS500IN is a high quality, self contained, intelligent gas sensor that offers a host of sophisticated features to provide fast, reliable warnings against explosive concentrations of combustible gases.



#### GS100IR Infrared Gas Detector

Applications for the GS100IR include breweries, chemical processing, food processing, underground car parks, ventilation systems, mushroom farming and many others.

## Technical Data

	GasSense Single Channel Gas Monitor	GasSense 4 Channel Gas Monitor	GasSense Multichannel Gas Monitor	GasSense GS100SS Multipoint Gas Sampler	GasSense GS100T Toxic Gas Detector	GasSense GS500N Combustible Gas Detector	GasSense GS500IN Intelligent Gas Sensor	GasSense GS100IR Infrared Gas Detector
<b>Physical</b>								
Height (mm)	160	230	122 (4U ver: 178)	160	80	80	164	140
Width (mm)	240	300	25	240	75	75	116	220
Depth (mm)	90	110	222	90	58	58	98	75
Weight (Kg)	3 (with optional battery)	3.5 (with optional battery)	300g	3.5 (with optional battery)	400g	710g	1.8Kg	1.8Kg
<b>Environmental Specifications</b>								
Operating Temp (°C)	-18 to +66	-18 to +66	-18 to +66	-15 to +50	-40 to +66	-40 to +40	-18 to +50	0 to +50
Storage Temperature	-40 to +66	-40 to +66	-40 to +66	-40 to +60	-	-	-	-
Humidity Range (non-condensing)	10 to 90% RH	10 to 90% RH	10 to 90% RH	10 to 90% RH	-	-	-	-
<b>Electrical Specifications</b>								
Supply Voltage	230Vac (115Vac optional)	230Vac (115Vac optional)	20 - 35 Vdc	230Vac (115Vac optional)	Nominal 24Vdc	-	Nominal 24Vdc	Nominal 24Vdc
Power Consumption	5W	6W	-	5W	-	-	2W Nominal, 2.3 Max	-
Part Numbers	F850251N	F850252N	F850253N	F850511N	F850511N	F850308N	F850307N	F850309N
Supply Current	-	-	Normal 80mA, Alarm 120mA @ 24 Vdc (per channel)	-	-	-	-	-
Relay Contacts	SPDT, 250V, 3A each for A1, A2, A3 & Fault	SPDT, 250V, 3A each for A1, A2, A3 & Fault (9 relays)	SPDT, 250V, 3A each for A1, A2, A3 & Fault (each card)	-	-	-	-	-
Analogue Output (max 500 Ohms)	4-20mA	4-20mA	4-20mA	4-20mA or 0-20mA	-	-	-	-
Operating Voltage	-	-	-	-	12Vdc to 30Vdc	2.05Vdc +/- 0.05Vdc	20Vdc to 35Vdc	18Vdc to 30Vdc
Operating Current	-	-	-	-	4-20mA	300mA	-	400mA at 24 Vdc

Chubb Fire, helping you to:  
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call 0800 32 1666 or visit [www.chubb.co.uk](http://www.chubb.co.uk)

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