

## ► Satellite XT

### Toxic, corrosive or combustible gas detector



### Technical specifications

**Detected gases:** AsH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>, BBr<sub>3</sub>, BCl<sub>3</sub>, BF<sub>3</sub>, Br<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>, C<sub>2</sub>H<sub>7</sub>N, CH<sub>4</sub>, CH<sub>6</sub>N<sub>2</sub>, Cl<sub>2</sub>, ClF<sub>3</sub>, ClO<sub>2</sub>, COCl<sub>2</sub>, ETO (C<sub>2</sub>H<sub>4</sub>O), F<sub>2</sub>, GeH<sub>4</sub>, H<sub>2</sub>, H<sub>2</sub>Se, HBr, HCl, HCN, HF, HMDS (C<sub>6</sub>H<sub>18</sub>OSi<sub>2</sub>), MCF (C<sub>2</sub>H<sub>3</sub>ClO<sub>2</sub>), NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub>, O<sub>3</sub>, PH<sub>3</sub>, POCl<sub>3</sub>, SiCl<sub>4</sub>, SiF<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiH<sub>3</sub>Cl, SiH<sub>4</sub>, SiHCl<sub>3</sub>, SO<sub>2</sub>, TBA (C<sub>4</sub>H<sub>11</sub>As), TBP (C<sub>12</sub>H<sub>27</sub>O<sub>4</sub>P), TDMAT (C<sub>8</sub>H<sub>24</sub>N<sub>4</sub>Ti), UMDH (C<sub>2</sub>H<sub>8</sub>N<sub>2</sub>) or WF<sub>6</sub>.

**With pump and pyrolyzer:**

C<sub>4</sub>F<sub>6</sub>, C<sub>5</sub>F<sub>8</sub>, CH<sub>3</sub>F, DCE (C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>), NF<sub>3</sub> or SF<sub>6</sub>

**Sensor type:** electrochemical

**Sensor life span:** > 1 year (normal use conditions)

**Power supply:** 12 ... 24 Vdc

**Extraction module power supply:** provided by Satellite

**Pyrolyzer power supply:** 90 – 230 Vac

**Analog output:** 4 - 20 mA

**Relay outputs (optional):** 3 contacts, max. 250 Vac / 30 Vdc, 2A

**Graphic display:** 122 x 32 points with backlight

**Keypad:** 6 touch function keys

**Dimensions (WxDxH):** 145 x 95 x 50 mm

**Extraction module dimensions:** 223 x 97 x 100 mm

**Pyrolyzer dimensions:** 78 x 95,5 x 50 mm

**Mounting:** DIN rail mounting

**Weight:** 480 grams

**Protection class:** IP 52

**Ambient operating conditions:**

- -20 to + 40 °C
- 20 - 90% RH (non-condensing)

**Electromagnetic compatibility:** EN 55022 & EN 50082-2

### Product description

Based on the smallest and most reliable electrochemical sensor technology on the market, the **Satellite XT** offers flexibility, simplicity and ease of application.

Plug-and-play measurement sensors facilitate maintenance operations and associated costs. The latter being pre-calibrated, it is not necessary to perform calibration after replacing a sensor.

#### ► Interchangeable pre-calibrated sensors

The proper operation of gas detection equipment requires periodic maintenance and calibration. Operations often become very expensive for particularly toxic or rare gases (standard gases supply, gas cylinders expiration dates, etc.).

A relevant and economical solution, gas detectors with interchangeable sensors: you order the gas sensor, you replace it yourself every year via a simple and intuitive menu and the device is then ready to use and calibrated! (Sensor storage: 6 to 12 months).

#### ► An autonomous gas detector

The **Satellite XT** has a linear 4-20 mA output, a digital display of the measured value and 3 relay outputs (optional) for controls.

This device can therefore be perfectly suited for local fixed gas detection applications with local servo controls.

#### ► Gas sampling pump

The XT extraction module is an additional module to be used with the **Satellite XT**. It allows remote gas sampling up to 50 meters away. Power is supplied by the **Satellite XT** which also provides the appropriate interface.

#### ► Pyrolyzer module

The XT pyrolysis module is an additional module used when gas monitoring requires preparation of a pyrolyzed sample to ensure detection. It requires both a **Satellite XT** and an XT extractor module.





Gas or vapor		Range	Cell	Pyr.	Code
AsH3	Arsine	0-1.00 ppm	AsH3		9602-6000
B2H6	Diborane	0-1.00 ppm	B2H6		9602-6202
BBR3	Boron tribromide	0-30.0 ppm	HBr		9602-7000
BCl3	Boron trichloride	0-30.0 ppm	HCl		9602-5800
BF3	Boron trifluoride	0-10.0 ppm	HF		9602-6500
Br2	Bromine	0-5.00 ppm	Br2		9602-6800
C2H4O2 (CH3COOH)	Acetic acid	0-10.0 ppm	C2H4O2 (CH3COOH)		9602-6500
C2H7N	DMA - Dimethylamine	0-100 ppm	NH3		9602-6704
C4F6	Hexafluoro-1,3-butadiene	0-50.0 ppm	C4F6	Pyr.	9602-9732
C5F8	Octafluorocyclopentene	0-20.0 ppm	C5F8	Pyr.	9602-9730
CH3F	Methyl Fluoride	0-0.500 %-vol.	CH3F	Pyr.	9602-9720
CH4	Methane	0-100 % LEL	CH4		9602-9900
CH6N2	Methylhydrazine	0-1.00 ppm	N2H4		9602-7600
Cl2	Chlorine	0-5.00 ppm	Cl2		9602-5300
ClF3	Chlorine Trifluoride	0-1.00 ppm	ClF3		9602-7410
ClO2	Chlorine Dioxide	0-1.00 ppm	ClO2		9602-7400
CO	Carbon Monoxide	0-500 ppm	CO		9602-5400
COCl2	Phosgene	0-1.00 ppm	COCl2		9602-6600
DCE (C2H4Cl2)	Di-chloro-ethylene 1,2	0-1000 ppm	DCE (C2H4Cl2)	Pyr.	9602-9600
ETO (C2H4O)	ETO - Ethylene oxide	0-20.0 ppm	ETO (C2H4O)		9602-8000
F2	Fluorine	0-30 ppm / 0-5 ppm	F2		9602-6401 / 6400
GeH4	Germane	0-5.0 ppm	GeH4		9602-6902
H2	Hydrogen	0-1 %-vol. / 0-4 %-vol.	H2		9602-5100 / 5101
H2S	Hydrogen Sulfide	0-100 ppm / 0-30 ppm	H2S		9602-5200 / 5201
H2Se	Hydrogen Selenide	0-1.0 ppm	H2Se		9602-5601
HBr	Hydrogen Bromide	0-30.0 ppm	HBr		9602-7000
HCl	Hydrogen Chloride	0-30.0 ppm	HCl		9602-5800
HCN	Hydrogen Cyanide	0-30.0 ppm	HCN		9602-5700
HF	Hydrogen Fluoride	0-10.0 ppm	HF		9602-6500
HMDS (C6H18OSi2)	Hexamethyldisilazane	0-0.5 %-vol. / 0-500 ppm	HMDS (C6H18OSi2)		9602-6715 / 6714
MCF (C2H3ClO2)	MCF - Methyl chloroformiate	0-1.00 ppm	COCl2		9602-6600
N2H4	Hydrazine	0-1.00 ppm	N2H4		9602-7600
NF3	Nitrogen Trifluoride	0-50.00 ppm	NF3	Pyr.	9602-9700
NH3	Ammonia	0-100 ppm / 0-1000 ppm	NH3		9602-6704 / 6705
NO	Nitric Oxide	0-250 ppm	NO		9602-7200
NO2	Nitrogen Dioxide	0-25.0 ppm	NO2		9602-7300
O2	Oxygen	0-25.0 %-vol.	O2		9602-5501
O3	Ozone	0-1.00 ppm	O3		9602-7100
PH3	Phosphine	0-1.00 ppm	PH3		9602-6100
POCl3	Phosphorus oxychloride	0-30.0 ppm	HCl		9602-5800
SF6	Sulfur Hexafluoride	0-0.500 %-vol.	SF6	Pyr.	9602-9710
SiCl4	Silicon tetrachloride	0-30.0 ppm	HCl		9602-5800
SIF4	Sulfur tetrafluoride	0-10.0 ppm	HF		9602-6500
SiH2CL2	Tetrafluorosilane	0-30.0 ppm	HCl		9602-5800
SiH3Cl	Chlorosilane	0-30.0 ppm	HCl		9602-5800
SiH4	Silane	0-50.0 ppm	SiH4		9602-6301
SiHCl3	Trichlorosilane	0-30.0 ppm	HCl		9602-5800
SO2	Sulfur Dioxide	0-25.0 ppm	SO2		9602-5900
TBA (C4H11As)	TBA - Tertiarybutylarsine	0-1.00 ppm	AsH3		9602-6000
TBP (C12H27O4P)	TBP - Tributyl phosphate	0-1.00 ppm	PH3		9602-6100
TDMAT (C8H24N4Ti)	TDMAT - Tetrakis (dimethylamino) titanium	0-100 ppm	NH3		9602-6704
TEOS (C8H20O4Si)	Tetraethyl Silicate	0-100 ppm	TEOS (C8H20O4Si)		9602-7500
TMB (C3H9BO3)	Trimethyl Borate	0-500 ppm	TMB (C3H9BO3)		9602-7510
TMP (C3H9O3P)	Trimethyl Phosphite	0-30.0 ppm	TMP (C3H9O3P)		9602-7800
UMDH (C2H8N2)	1,1-Dimethylhydrazine	0-1.00 ppm	N2H4		9602-7600
WF6	Tungsten hexafluoride	0-10.0 ppm	WF6		9602-6500