

Uniphos

KwikSense

Smart Digital Gas Transmitter



Engineered to deliver in the most challenging conditions and safeguard your valuable assets



Delivering
Excellence
 for over 30 years

Uniphos
KwikSense Pro
 Smart Digital Gas
 Transmitter

The KwikSense Pro smart digital gas transmitter is a field mountable gas detector suitable for the detection and continuous monitoring of hazardous gases in industrial plants.

A truly universal transmitter, it is compatible with any one of our more than 100 smart gas sensors, which include oxygen, toxic gases, combustible gases and volatile organic compounds (VOCs).



 Digital Communication on MODBUS over RS-485 / HART over 4-20mA

 Industry standard 4-20mA analog output

 3 potential free relay contacts

 Pre-Calibrated Smart Sensor capable of swapping between any sensor technology

- Sensor Technologies Available
 - Electrochemical
 - NDIR
 - Pellistor
 - PID
 - Solid State
 - MPS
- Non-intrusive Calibration
- Bright OLED display

Multiple Variants Singular Reliability

Uniphos KwikSense Lite Digital Gas Transmitter



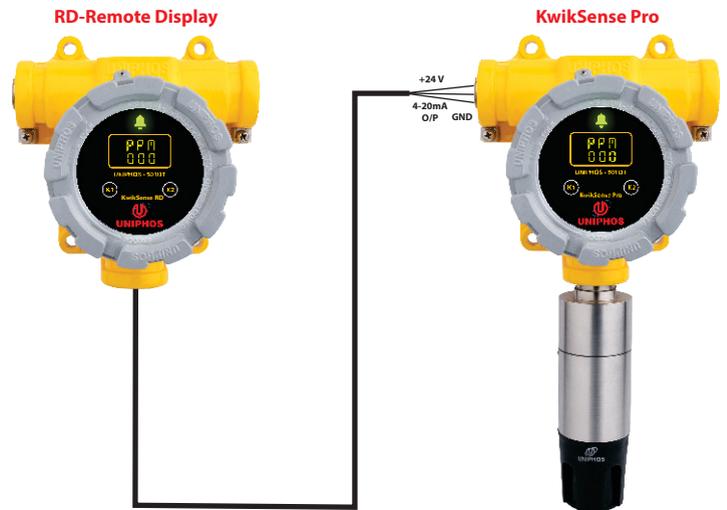
The Uniphos KwikSense Lite Transmitter offers users a low-cost solution to their gas monitoring needs.

The KwikSense Lite comes with a single gas swappable sensor facility and a single Potential free relay contact for alarm.

Specifications

- Swappable Smart Sensor for single gas
- Sensor Technologies available: EC, PEL, NDIR, PID & SS
- Industrial standard 4-20 mA output
- Tri-color LEDs indicate alarm

Uniphos KwikSense RD Remote Display



The Uniphos KwikSense RD allows gas concentration reading from remotely located or inaccessible transmitter to be viewed at a convenient location.

This is particularly useful if the gas transmitter is located in a location where its display is difficult to view or in case a second display is required.

It can act as a controller or as a bridge between the detector and controller.

Specifications

- Configuration via non-intrusive magnetic wand
- It accepts industry standard 4-20mA input available from detector and provides RS-485 MODBUS and 4-20mA output to connect with the controller
- Tri-color LEDs have been provided to signal the alarm condition

KwikSwap
Smart Sensors
 Sensor Technology at its best
 Smart Sensor Modules available for Gases



Ordering code	Gas Name	Range	Resolution	Technology
SSA0074A	Acetic Acid	0-30 ppm	0.1 ppm	EC
SSA0099C	Acetylene	0-100% LEL	1% LEL	Pellistor
SSA0082A	Ammonia	0-100 ppm	1 ppm	EC
SSA0082B	Ammonia	0-1000 ppm	1 ppm	EC
SSA0099V	Butadiene	0-50 ppm	1 ppm	PID
SSA0099S	Butadiene	0-100% LEL	1% LEL	NDIR
SSA0061A	Bromine	0-20 ppm	0.1 ppm	EC
SSA0099D	Butanol	0-100% LEL	1% LEL	Pellistor
SSA0025A	Carbon Dioxide	0-5% v/v	0.01 %v/v	NDIR
SSA0025B	Carbon Dioxide	0-100% v/v	1% v/v	NDIR
SSA0021A	Carbon Disulfide	0-50 ppm	1 ppm	PID
SSA0021B	Carbon Disulfide	0-100 ppm	1 ppm	EC
SSA0020D	Carbon Monoxide	0-100 ppm	1 ppm	EC
SSA0020E	Carbon Monoxide	0-200 ppm	1 ppm	EC
SSA0020F	Carbon Monoxide	0-300 ppm	1 ppm	EC
SSA0020B	Carbon Monoxide	0-500 ppm	1 ppm	EC
SSA0020A	Carbon Monoxide	0-1000 ppm	1 ppm	EC
SSA0020C	Carbon Monoxide	0-2000 ppm	1 ppm	EC
SSA0060B	Chlorine	0-10 ppm	0.1 ppm	EC
SSA0060A	Chlorine	0-20 ppm	0.1 ppm	EC
SSA0062A	Chlorine Dioxide	0-1 ppm	0.1 ppm	EC
SSA0097A	Ethylene	0-1500 ppm	5 ppm	EC
SSA0099AJ	Ethylene Dichloride	0-100% LEL	1% LEL	NDIR
SSA0083A	ETO	0-20 ppm	0.1 ppm	EC
SSA0083B	ETO	0-100 ppm	1 ppm	EC
SSA0098A	Formaldehyde	0-10 ppm	0.1 ppm	EC
SSA0099A	Hydrocarbon (Methane)	0-100% LEL	1% LEL	Pellistor
SSA0099G	Hydrocarbon (Methane)	500-10000 ppm	10 ppm	SS
SSA0099AS	HC & H2	0-100% LEL	0.1% LEL	MPS
SSA0099H	Hydrocarbon	50-1000 ppm	1 ppm	SS
SSA0090A	Hydrogen (IIC)	0-1000 ppm	1 ppm	EC
SSA0090B	Hydrogen (IIC)	0-100% LEL	1% LEL	EC
SSA0090C	Hydrogen (IIC)	0-100% LEL	1% LEL	Pellistor
SSA0070A	Hydrogen Chloride	0-20 ppm	0.1 ppm	EC
SSA0075B	Hydrogen Cyanide	0-30 ppm	0.1 ppm	EC
SSA0075A	Hydrogen Cyanide	0-100 ppm	1 ppm	EC
SSA0072A	Hydrogen Fluoride	0-10 ppm	0.1 ppm	EC
SSA0030A	Hydrogen Sulphide	0-100 ppm	1 ppm	EC
SSA0030B	Hydrogen Sulphide	0-20 ppm	1 ppm	EC
SSA0099O	Iso-Butane	0-100% LEL	1% LEL	Pellistor
SSA0099B	LPG	0-100% LEL	1% LEL	Pellistor
SSA0099T	LPG	0-100% LEL	1% LEL	NDIR
SSA0099P	MEK	0-100% LEL	1% LEL	NDIR
SSA0099E	Methane	0-100% LEL	1% LEL	NDIR
SSA0099F	Methane	0-100% v/v	1% v/v	NDIR
SSA0099K	Methanol	0-100 ppm	1 ppm	EC
SSA0099M	Methanol	0-500 ppm	1 ppm	EC
SSA0099U	Methanol	0-100% LEL	1% LEL	PID
SSA0035A	Mercaptan*	0-20 ppm	0.1 ppm	EC
SSA0051A	Methyl Bromide	0-200 ppm	1 ppm	SS
SSA0087A	Mono Methyl Amine	0-100 ppm	1 ppm	EC
SSA0099N	N-Butane	0-100% LEL	1% LEL	Pellistor
SSA0099K	Methanol	0-100 ppm	1 ppm	EC
SSA0081A	Nitrogen Dioxide	0-20 ppm	0.1 ppm	EC
SSA0080B	Nitric Oxide	0-200 ppm	1 ppm	EC
SSA0089A	Nitrous Oxide	0-1000 ppm	10 ppm	NDIR
SSA0010A	Oxygen	0-25% v/v	0.1 %v/v	EC
SSA0015A	Ozone	0-1 ppm	0.01 ppm	EC
SSA0055A	Phosgene	0-1 ppm	0.01 ppm	EC
SSA0050A	Phosphine	0-10 ppm	0.01 ppm	EC
SSA0050B	Phosphine	0-20 ppm	0.1 ppm	EC
SSA0050C	Phosphine	0-20 ppm	0.01 ppm	EC
SSA0050D	Phosphine	0-5000 ppm	10 ppm	EC
SSA0050E	Phosphine	0-2000 ppm	1 ppm	EC
SSA0099I	Propane	0-100% LEL	1% LEL	NDIR
SSA0099J	Propane	0-100% LEL	1% LEL	Pellistor
SSA0099L	Propylene	0-2% v/v	0.01% v/v	NDIR
SSA0053A	Silane	0-15 ppm	1 ppm	EC
SSA0040A	Sulphur Dioxide	0-20 ppm	0.1 ppm	EC
SSA0100C	VOC (Benzene)	0-20 ppm	0.1 ppm	PID
SSA0100F	VOC (Benzene)	0-1000 ppm	1 ppm	PID
SSA0100B	VOC (Isobutylene)	0-40 ppm	0.1 ppm	PID
SSA0100E	VOC (Isobutylene)	0-100 ppm	1 ppm	PID
SSA0100A	VOC (Isobutylene)	0-1000 ppm	1 ppm	PID
SSA0100D	VOC (Isobutylene)	0-4000 ppm	1 ppm	PID
SSA0100G	VOC (VCM)	0-100 ppm	1 ppm	PID



- Multiple Sensor Technologies; Electrochemical, NDIR, Pellistor, PID, Solid State & MPS
- Easy to calibrate with plug and play capability

KwikSwap Smart sensors are at the heart of the cutting edge technology of the KwikSense Gas Transmitters. Their unique plug-n-play feature across all sensing technologies and transportable calibration results in savings in regular maintenance and calibration.

EC: Electrochemical, NDIR: Non-Dispersive Infrared, PID: Photo Ionization Detection, SS: Solid State, MPS: Molecular Property Spectrometer

Note : Please contact us for any other special gas requirements other than that specified in the table.

Do more with an exclusive range of Accessories

KwikSense

Premium Accessories

There are a range of accessories for the KwikSense transmitter that can be used in a wide variety of applications. These include mounting bracket, collection cone, duct mounting kit and weather shield cum calibration adapter.



Weather Shield cum Calibration Adapter



Designed to protect the sensor from changes in environmental conditions. This is recommended to be fitted to a KwikSense transmitter sensor for outdoor exposed applications.

Pipe Mounting Bracket

Allows the KwikSense transmitter to be installed onto a dedicated mounting post or existing structure at the desired location.



Collection Cone

Designed for use with gases lighter than air.



Flow Through Adapter

Allows KwikSense transmitter to be used with gas sampling system, making it suitable for process gas monitoring applications.

Duct Mounting Kit

Used to mount the transmitter in HVAC systems, allowing monitoring of gases inside it.



General Specifications

Parameter	KwikSense Pro	KwikSense Lite	KwikSense RD
Sensor Technology	EC/PEL/NDIR/PID/SS/MPS	EC/PEL/NDIR/PID/SS	NA
Operating Voltage	18V to 30 VDC	18V to 30 VDC	18V to 30 VDC
System Type	µController based instrument (non-intrusive calibration)	µController based instrument (non-intrusive calibration)	µController based instrument (non-intrusive calibration)
Display	8 x 2 OLED Display	8 x 2 OLED Display	8 x 2 OLED Display
Sampling Type	Diffusion	Diffusion	NA
Sensor	Swappable Smart Sensor	Swappable Smart Sensor for single gas	NA (Industrial std. 4-20mA input)
LED's	Tri-color LED	Tri-color LED	Tri-color LED
Alarms	Two user settable alarms	Two user settable alarms	Two user settable alarms
Output	4-20 mA MODBUS over RS-485 HART over 4-20 mA	4-20 mA	4-20 mA MODBUS over RS-485
Relays	3-potential free contacts	1-potential free relay	3-potential free contacts
Load Resistance	>600Ω@24 VDC	>600Ω@24 VDC	>600Ω@24 VDC
Power Consumption	< 3 W	< 3 W	< 3 W
Enclosure	Flameproof Cast Aluminium Alloy (LM6)/SS-316	Flameproof Cast Aluminium Alloy (LM6)/SS-316	Flameproof Cast Aluminium Alloy (LM6)/SS-316
Ingress Protection	IP 66	IP 66	IP 66
Dimensions (mm)	Approx. 155 x 145 x 100 (WO cable gland & stopper)	Approx. 155 x 145 x 100 (WO cable gland & stopper)	Approx. 155 x 145 x 100 (WO cable gland & stopper)
Wire configuration	3/4 wires	3 wires	3/4 wires
Interface	Calibration & configuration via non-intrusive magnetic wand	Calibration & configuration via non-intrusive magnetic wand	Configuration via non-intrusive magnetic wand
Operating Temp.	-40 to +60 °C (sensor dependent)	-40 to +60 °C (sensor dependent)	-40 to +60 °C (sensor dependent)
Operating Pressure	Ambient ±10 %	Ambient ±10 %	Ambient ±10 %
Operating Humidity	0-95% RH	0-95% RH	0-95% RH
Cable Entries	¾" NPT (M25) - 2 entries	¾" NPT (M25) - 2 entries	¾" NPT - 1 entry
Certifications	1. ATEX 2. IECEx 3. SIL ² 4. CE 5. HART 6. SGS US & Canada	1. ATEX 2. IECEx 3. SGS US & Canada	1. ATEX 2. IECEx 3. SGS US & Canada
Weight	LM6: 2.3 kg (Approx.) SS: 5.0 kg (Approx.)	LM6: 2.3 kg (Approx.) SS: 5.0 kg (Approx.)	LM6: 2.3 kg (Approx.) SS: 5.0 kg (Approx.)

Certifications: KwikSense Pro

- US and Canada certified by SGS BASEEFA
 - Zone 1 Class 1 AEx db IIC T6 Gb (-40 °C ≤ Ta ≤ 55 °C)
 - Zone 1 Class 1 AEx db IIC T5 Gb (-40 °C ≤ Ta ≤ 60 °C)
 - Zone 1 Class 1 AEx db IIC T4 Gb (-40 °C ≤ Ta ≤ 60 °C)
 - Zone 1 Class 1, Division 2 Groups A, B, C, D
- ATEX (Ex) certified by SGS BASEEFA
 - Ex db IIC T6 Gb (T_{amb} = -40 °C to +55 °C)
 - Ex db IIC T5 Gb (T_{amb} = -40 °C to +70 °C)
 - Ex db IIC T4 Gb (T_{amb} = -40 °C to +85 °C):
Not applicable with remote sensor option
- IECEx Certified Certificate No: IECEx BAS 19.0041X
 - Ex db IIC T6 Gb (T_{amb} = -40 °C to +55 °C)
 - Ex db IIC T5 Gb (T_{amb} = -40 °C to +70 °C)
 - Ex db IIC T4 Gb (T_{amb} = -40 °C to +85 °C):
Not applicable with remote sensor option
- SIL-2 Certified
- HART Registered 

Due to continuous development, we reserve the right to change specifications without prior notice.

KwikSense Lite and KwikSense RD

- US and Canada certified by SGS BASEEFA
 - Zone 1 Class 1 AEx db IIC T6 Gb (-40 °C ≤ Ta ≤ 55 °C)
 - Zone 1 Class 1 AEx db IIC T5 Gb (-40 °C ≤ Ta ≤ 60 °C)
 - Zone 1 Class 1 AEx db IIC T4 Gb (-40 °C ≤ Ta ≤ 60 °C)
 - Zone 1 Class 1, Division 2 Groups A, B, C, D
- ATEX (Ex) certified by SGS BASEEFA
 - Ex db IIC T6 Gb (T_{amb} = -40 °C to +55 °C)
 - Ex db IIC T5 Gb (T_{amb} = -40 °C to +70 °C)
 - Ex db IIC T4 Gb (T_{amb} = -40 °C to +85 °C):
Not applicable with remote sensor option
- IECEx Certified Certificate No: IECEx BAS 19.0041X
 - Ex db IIC T6 Gb (T_{amb} = -40 °C to +55 °C)
 - Ex db IIC T5 Gb (T_{amb} = -40 °C to +70 °C)
 - Ex db IIC T4 Gb (T_{amb} = -40 °C to +85 °C):
Not applicable with remote sensor option



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