

Uniphos KwikSense

Remote Gas Transmitter Display



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



Multiple Variants Singular Reliability

Uniphos KwikSense Lite Digital Gas Transmitter



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

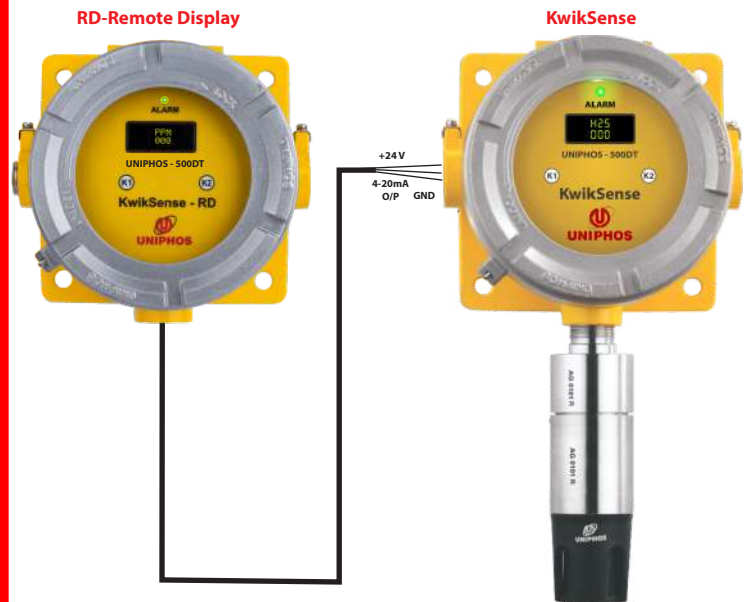
The KwikSense Lite comes with a single gas swappable sensor facility and a single potential free relay contact for alarm.

MED certification is applicable for Oxygen and Flammable gases.

Specifications

- Fixed single gas sensors
- 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 enables users to duplicate the transmitter display at a second remote 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

General Specifications



Parameter	KwikSense	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 operation)
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	4-20mA MODBUS over RS-485 HART over 4-20 mA	4-20 mA	4-20mA MODBUS over RS-485
Relays	3-potential free contacts	1-potential free relay	3-potential free contacts
Load resistance	600 Ω (max)	600 Ω (max)	600 Ω (max)
Power Consumption	< 3 W	< 3 W	< 3 W
Enclosure	Flameproof Cast Aluminium alloy/SS-316	Flameproof Cast Aluminium alloy	Flameproof Cast Aluminium alloy/SS-316
Ingress protection	IP 66	IP 66	IP 66
Dimensions (mm)	Approx. 250 x170 x 105 (WO cable gland & stopper)	Approx. 250 x170 x 105 (WO cable gland & stopper)	Approx. 250 x170 x 105 (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 +65 ° C (depend on sensor)	-40 to +65 ° C (depend on sensor)	-40 to +65 ° C (depend on sensor)
Operating Pressure	Ambient ± 10 %	Ambient ± 10 %	Ambient ± 10 %
Operating Humidity	0-95 %RH (Extended exposure to extreme humid conditions may degrade sensor performance)		
Cable entries	½" NPT (M20) - 2 entries / ¾" NPT (M25) - 2 entries	½" NPT (M20) - 2 entries / ¾" NPT (M25) - 2 entries	½" NPT (2 entries) & ¾" NPT (1 entry)
Certifications	1. ATEX/IECEX + PESO 2. PESO 3. CIMFR 4. SIL2 5. INMETRO 6. MED 7. HART 8. CE	1. ATEX/IECEX + PESO 2. CIMFR 3. MED 4. CE	1. ATEX/IECEX + PESO
Weight	LM6 : 2.6 kg (Approx.) SS : 5.5 kg. (Approx.)	LM6 : 2.6 kg (Approx.)	LM6 : 2.2 kg (Approx.) SS : 5.0 kg (Approx.)

Certifications: KwikSense

- CCOE & CIMFR certified to Exd IIC, T6, IP 66
- ATEX  certified by SGS BASEEFA Certificate No: Baseefa 14ATEX 0304X
 -  II 2 G 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 14.0148X
 - Ex db IIC T6 Gb (T_{amb} = -40°C to +55°C)
 - Ex db IIC T5 Gb (T_{amb} = -40°C to +70°C)
- MED is applicable for KwikSense
 - Ex db IIC T4 Gb (T_{amb} = -40°C to +85°C)
 - Not applicable with remote sensor option
- SIL-2 Certified

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

KwikSense Lite & KwikSense RD

- ATEX  certified by SGS BASEEFA
 -  II 2 G 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
 - MED Certified is applicable for KwikSense Lite only
- IECEx Certified
 - 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)



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