

## XTP601 Thermo-Paramagnetic Oxygen Analyzer

### Base Model & Area Class

#### XTP601-GP1

Thermo-paramagnetic oxygen analyzer.  
Standard features include: HMI (backlit LCD & 4 buttons), IP66 rated wall mounted enclosure, 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x concentration alarms and 24Vdc powered.

General Purpose Analyzer (1/4" NPT(F) gas connections)

XTP601-GP1

#### XTP601-GP2

Thermo-paramagnetic oxygen analyzer.  
Standard features include: HMI (backlit LCD & 4 buttons), IP66 rated wall mounted enclosure, 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x concentration alarms and 24Vdc powered.

General Purpose Analyzer with flame arrestors (1/8" NPT(F) gas connections)

XTP601-GP2

#### XTP601-EX1

Thermo-paramagnetic oxygen analyzer.  
Standard features include: HMI (backlit LCD & 4 buttons), IP66 rated wall mounted enclosure, 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x concentration alarms and 24Vdc powered.

Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections)

XTP601-EX1

### Cell O-Ring Material

Viton

A

Ekras Sensor Cell O-ring

B

### Range - verify selection using Sensor Matrix

Range 0 to 1% Oxygen

A

Range 0 to 2% Oxygen

B

Range 0 to 5% Oxygen

C

Range 0 to 10% Oxygen

D

Range 0 to 21% Oxygen

E

Range 0 to 25% Oxygen (calibrated 0 to 21%)

F

Range 0 to 50% Oxygen (CFOS Cleaning must be selected for ranges >25%)

G

Range 80 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

H

Range 90 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

J

Range 0 to 4% Oxygen

K

Range 0 to 0.5% Oxygen

L

Range 20 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

M

Range 0 to 1% Oxygen (Special Calibration for Air Ingress Application)

N

Range 0 to 2% Oxygen (Special Calibration for Air Ingress Application)

P

Range 0 to 5% Oxygen (Special Calibration for Air Ingress Application)

Q

Range 0 to 10% Oxygen (Special Calibration for Air Ingress Application)

R

Range 0 to 21% Oxygen (Special Calibration for Air Ingress Application)

T

Range 0 to 25% Oxygen (Special Calibration for Air Ingress Application)

U

### Background Gas - verify selection using Sensor Matrix

Nitrogen (N2)

A

Carbon Dioxide (CO2)

B

Methane (CH4)

C

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Hydrogen (H2)

D

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

BIOGAS (60%CH4/40%CO2 - unless otherwise stated)

E

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Natural Gas - C8 Mixture

F

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Argon (Ar)

G

Helium (He)

H

### Cell temperature

50°C

A

60°C

C

### SIL

Standard product

A

Meets the requirements of IEC61508 (SIL 2 Capable)

B

### Build Options

Standard Product

A

Optional Cleaning for Oxygen Service (CFOS); standard for O2 applications with Calibration Ranges >25% O2

B

### Ordering Example

<b>XTP601-EX1-AFACBA</b>	<p><b>XTP601-EX1 Thermo-paramagnetic oxygen analyzer.</b></p> <p><b>Standard features include:</b>  <b>HMI (backlit LCD &amp; 4 buttons),</b>  <b>IP66 rated wall mounted enclosure,</b>  <b>316 stainless steel sample path,</b>  <b>2 x 4-20mA outputs,</b>  <b>MODBUS RTU (RS485),</b>  <b>2 x concentration alarms</b>  <b>24Vdc powered.</b></p> <p><b>Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections</b></p> <p><b>Cell O-Ring Material: Viton</b>  <b>Background Gas: Nitrogen (N2)</b>  <b>Range: 0 to 25% Oxygen (calibrated 0 to 21%)</b>  <b>Cell Temperature: 60°C</b>  <b>SIL: Meets the requirements of IEC61508 (SIL 2 Capable)</b></p>
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[SEE GAS MATRIX HERE](#)

<b>XTP601 Additional Options</b>	
<b>Callibration</b>	
XTP-ATP	Additional Test Point
* XT-Recal	Factory Recalibration - advise points at time of order
<b>Warranty</b>	
* XTC601-EW24	Extended warranty 24 months from invoice date
* XTC601-EW36	Extended warranty 36 months from invoice date
<b>Documentation</b>	
* EXPORT-DOCS	Certificate of Origin from the Chamber of Commerce
* DOC-CERT-CC	Certificate of Conformity
* XTP601-M1	Material certificate to BS EN 10204 – type 3.1
<b>XTC601 Spares and Accessories</b>	
<b>GBU Accessories</b>	
XTP601-BLANKPLUG	Blanking Plug
XTP601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTP601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP1 only)
XTP601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
XTP601-14198	GUB Lid o-ring
<b>Gas fitting adaptors - for GP1 (1/4" NPTF)</b>	
XTP601-1/4"	1/4" NPT to 1/4" Swagelok Tube Adaptor
XTP601-6MM	1/4" NPT to 6mm Swagelok Tube Adaptor
GEN-20114C	1/4" NPT to 1/8" Swagelok Tube Adaptor
<b>Gas fitting adaptors - for GP2 &amp; EX1 (1/8" NPTF)</b>	
GEN-2PK-FIT-A	1/8" NPT to 1/8" Swagelok Tube Adaptor
GEN-2PK-FIT-B	1/8" NPT to 1/4" Swagelok Tube Adaptor
GEN-2PK-FIT-C	1/8" NPT to 6mm Swagelok Tube Adaptor
<b>Display</b>	
XTP601-GP-HMI	Display assembly for GP model
XTP601-EX-HMI	Display assembly for EX model
<b>Miscellaneous</b>	
XTP601-26149	Fuse for main PCB
XTP601-TFUUSE	Thermal Fuse (70°C)
XTC601-RC	Ribbon cable assembly
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
* On certain labor intensive services, no discount can be offered. These items are always offered at list price.	

## XTP Spare Sensor

### Base Model

Spare sensor and main pcb for XTP series  
Sensor 2012-Present

XTP001

### Cell O-Ring Material

Viton

A

Ekras Sensor Cell O-ring

B

### Range

Range 0 to 1% Oxygen

A

Range 0 to 2% Oxygen

B

Range 0 to 5% Oxygen

C

Range 0 to 10% Oxygen

D

Range 0 to 21% Oxygen

E

Range 0 to 25% Oxygen (calibrated 0 to 21%)

F

Range 0 to 50% Oxygen (CFOS Cleaning must be selected for ranges >25%)

G

Range 80 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

H

Range 90 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

J

Range 0 to 4% Oxygen

K

Range 0 to 0.5% Oxygen

L

Range 20 to 100% Oxygen (CFOS Cleaning must be selected for ranges >25%)

M

Range 0 to 1% Oxygen (Special Calibration for Air Ingress Application)

N

Range 0 to 2% Oxygen (Special Calibration for Air Ingress Application)

P

Range 0 to 5% Oxygen (Special Calibration for Air Ingress Application)

Q

Range 0 to 10% Oxygen (Special Calibration for Air Ingress Application)

R

Range 0 to 21% Oxygen (Special Calibration for Air Ingress Application)

T

Range 0 to 25% Oxygen (Special Calibration for Air Ingress Application)

U

### Background Gas - verify selection using Sensor Matrix

Nitrogen (N2)

A

Carbon Dioxide (CO2)

B

Methane (CH4)

C

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Hydrogen (H2)

D

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

BIOGAS (60%CH4/40%CO2 - unless otherwise stated)

E

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Natural Gas - C8 Mixture

F

(Analyser must be Explosion Proof or equipped with Flame Arrestors)

Argon (Ar)

G

Helium (He)

H

### Cell temperature

50°C

A

55°C

B

60°C

C

### Build Options

Standard Product

A

Optional Cleaning for Oxygen Service (CFOS); standard for O2 applications with Calibration Ranges >25% O2

B

### XTC001 Additional Options

#### Documentation

\* XTP001-M1

Material certificate to BS EN 10204 – type 3.1

\* On certain labor intensive services, no discount can be offered. These items are always offered at list price.

XTP601 Thermo-Paramagnetic Oxygen Analyzer

			Background Gas							
Target Gas		Measurement Range	A	B	C	D	E	F	G	H
			Nitrogen (N2)	Carbon Dioxide (CO2)	Methane (CH4)	Hydrogen (H2)	BIOGAS (60%CH4/40%CO2) - unless otherwise stated	Natural Gas - C8 Mixture	Argon (Ar)	Helium (He)
	Enclosure Suitability		GP1 GP2 EX1	GP1 GP2 EX1	GP2 EX1	GP2 EX1	GP2 EX1	GP2 EX1	GP1 GP2 EX1	GP1 GP2 EX1
Oxygen		L	Range 0 to 0.5% Oxygen							
		A	Range 0 to 1% Oxygen							
		B	Range 0 to 2% Oxygen							
		K	Range 0 to 4% Oxygen							
		C	Range 0 to 5% Oxygen			Calibration points up to 4.6%				
		D	Range 0 to 10% Oxygen							
		E	Range 0 to 21% Oxygen							
		F	Range 0 to 25% Oxygen (calibrated 0 to 21%)							
		G	Range 0 to 50% Oxygen							
		M	Range 20 to 100% Oxygen							
		H	Range 80 to 100% Oxygen							
		J	Range 90 to 100% Oxygen							
		N	Range 0 to 1% Oxygen Calibrated as Air Ingress							
		P	Range 0 to 2% Oxygen Calibrated as Air Ingress							
		Q	Range 0 to 5% Oxygen Calibrated as Air Ingress			Calibration points up to 4.0%				
		R	Range 0 to 10% Oxygen Calibrated as Air Ingress							
		T	Range 0 to 21% Oxygen Calibrated as Air Ingress					Calibration point in flammable region performed in N2		
		U	Range 0 to 25% Oxygen Calibrated as Air Ingress					Calibration point in flammable region performed in N2		

Flamable Gas  
Consult Applications Support  
No Product Offer

