

XTC601 Binary Gas Analyser

Base Model & Area Class			
XTC601-GP1 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. 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, 3 x M20 cable entries and 24Vdc powered. General Purpose Analyzer (1/4" NPT(F) gas connections)	XTC601-GP1		
XTC601-GP2 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. 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, 3 x M20 cable entries and 24Vdc powered. General Purpose Analyzer with flame arrestors (1/8" NPT(F) gas connections)	XTC601-GP2		
XTC601-EX1 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. 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, 3 x M20 cable entries and 24Vdc powered. Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections)	XTC601-EX1		
Cell O-Ring Material			
Viton		A	
Ekraz Sensor Cell O-ring		B	
Target Gas - Verify selection using Sensor Matrix			
Hydrogen (H2) (Analyser must be Explosion Proof or equipped with Flame Arrestors)		A	
Helium (He)		B	
Methane (CH4) (Analyser must be Explosion Proof or equipped with Flame Arrestors)		C	
Argon (Ar)		D	
Carbondioxide (CO2)		E	
Nitrogen		F	
Background Gas - verify selection using Sensor Matrix			
Nitrogen (N2)		A	
Oxygen (O2) <i>(CFOS Cleaning must be selected)</i>		B	
Air		C	
Argon (Ar)		D	
Carbondioxide (CO2)		E	
Methane (CH4) (Analyser must be Explosion Proof or equipped with Flame Arrestors)		F	
Non-methanane hydrocarbons (NMHC) (Analyser must be Explosion Proof or equipped with Flame Arrestors)		G	
Carbon Monoxide (CO) (calibrated with N2) (Analyser must be Explosion Proof or equipped with Flame Arrestors)		H	
Range - verify selection using Sensor Matrix			
Range 0 to 1% (H2 & He Target Gas only)		A	
Range 0 to 2% (H2 & He Target Gas only)		B	
Range 0 to 5%		C	
Range 0 to 10%		D	
Range 0 to 20%		E	
Range 0 to 30%		F	
Range 0 to 50%		G	
Range 0 to 100%		H	
Range 50 to 100%		J	
Range 70 to 100%		K	
Range 80 to 100%		L	
Range 90 to 100%		M	
Range 95 to 100% (H2 & He Target Gas only)		N	
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	
<i>Optional Cleaning for Oxygen Service (CFOS); standard for O2 applications</i>		B	
Ordering Example			

XTC601-EX1-8ABCCBB	XTC601-EX1 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor.
	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, 3 x M20 cable entries 24Vdc powered.
	Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections)
	Cell O-Ring Material: Ekraz Target Gas: Hydrogen Background Gas: Oxygen Range: 0 - 5% Cell Temperature: 60°C SIL: Meets the requirements of IEC61508 (SIL 2 Capable) Supplied Clean for Oxygen Service

[SEE GAS MATRIX HERE](#)

XTC601 Additional Options	
Calibration	
XTP-ATP	Additional Test Point - Contact O2 Support Group for Pricing
* XT-Recal	Factory Recalibration - advise points at time of order
Warranty	
* XTC601-EW24	Extended warranty 24 months from invoice date
* XTC601-EW36	Extended warranty 36 months from invoice date
Documentation	
* EXPORT-DOCS	Certificate of Origin from the Chamber of Commerce
* DOC-CERT-CC	Certificate of Conformity
* XTC601-M1	Material certificate to BS EN 10204 – type 3.1
XTC601 Spares and Accessories	
GBU Accessories	
XTC601-BLANKPLUG	Blanking Plug
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTC601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP1 only)
XTC601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
XTP601-14198	GUB Lid o-ring
Gas fitting adaptors - for GP1 (1/4" NPTF)	
XTC601-1/4"	1/4" NPT to 1/4" Swagelok Tube Adaptor
XTC601-6MM	1/4" NPT to 6mm Swagelok Tube Adaptor
XTC601-1/4"-SC11	1/4" NPT to 1/4" Swagelok Tube Adaptor, Oxygen cleaned
XTC601-6MM-SC11	1/4" NPT to 6mm Swagelok Tube Adaptor, Oxygen cleaned
GEN-20114C	1/4" NPT to 1/8" Swagelok Tube Adaptor
Gas fitting adaptors - for GP2 & EX1 (1/8" NPTF)	
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

XTC601-HCG Binary Gas Analyser

Base Model & Area Class			
XTC601-EX1 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. 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, 3 x M20 cable entries and 24Vdc powered. Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections)		XTC601-EX1	
Cell O-Ring Material			
Viton		A	
Target Gas - Verify selection using Sensor Matrix			
H2/Air+H2/CO2+CO2/Air		X	
Background Gas - verify selection using Sensor Matrix			
HCG only		X	
Range - verify selection using Sensor Matrix			
Range 70 to 100%		K	
Range 80 to 100%		L	
Range 90 to 100%		M	
Cell temperature			
60°C		C	
SIL			
Standard product		A	
Build Options			
Standard product		A	
Ordering Example			
XTC601-EX1-AXXKCAA	XTC601-EX1 Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. 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, 3 x M20 cable entries 24Vdc powered. Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections) Cell O-Ring Material: Viton Target Gas: H2/Air+H2/CO2+CO2/Air Background Gas: HCG only Range: 70 to 100% Cell Temperature: 60°C		
XTC601-HCG Additional Options			
Callibration			
* XT-Recal	Factory Recalibration - advise points at time of order		
Warranty			
* XTC601-EW24	Extended warranty 24 months from invoice date		
* XTC601-EW36	Extended warranty 36 months from invoice date		
Documentation			
* EXPORT-DOCS	Certificate of Origin from the Chamber of Commerce		
* DOC-CERT-CC	Certificate of Conformity		
* XTC601-M1	Material certificate to BS EN 10204 – type 3.1		
XTC601-HCG Spares and Accessories			
GBU Accessories			
XTC601-BLANKPLUG	Blanking Plug		
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)		
XTC601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP1 only)		
XTC601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)		
XTP601-14198	GUB Lid o-ring		
Gas fitting adaptors (1/8" NPTF)			
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		

XTC Spare Sensors

Base Model

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

XTC001

Cell O-Ring Material

Viton

A

Ekras Sensor Cell O-ring

B

Target Gas - Verify selection using Sensor Matrix

Hydrogen (H2)

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

A

Helium (He)

B

Methane (CH4)

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

C

Argon (Ar)

D

Carbondioxide (CO2)

E

Nitrogen

F

Special Target Gas

Z

** H2/Air+H2/CO2+CO2/Air (Select Range 70 - 100%, 80 - 100%, 90 - 100%)

X

Background Gas - verify selection using Sensor Matrix

Nitrogen (N2)

A

Oxygen (O2) (CFOS Cleaning must be selected)

B

Air

C

Argon (Ar)

D

Carbondioxide (CO2)

E

Methane (CH4)

F

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

Non-methanane hydrocarbons (NMHC)

G

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

Carbon Monoxide (CO) (calibrated with N2)

H

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

HCG Only

X

Range - verify selection using Sensor Matrix

Range 0 to 1% (H2 & He Target Gas only)

A

Range 0 to 2% (H2 & He Target Gas only)

B

Range 0 to 5%

C

Range 0 to 10%

D

Range 0 to 20%

E

Range 0 to 30%

F

Range 0 to 50%

G

Range 0 to 100%

H

Range 50 to 100%

J

Range 70 to 100%

K

Range 80 to 100%

L

Range 90 to 100%

M

Range 95 to 100% (H2 & He Target Gas only)

N

Cell temperature

50°C

A

60°C

C

Build Options

Standard Product

A

Optional Cleaning for Oxygen Service (CFOS); standard for O2 applications

B

Serial number of Analyzer required on order placement
For other gas combinations and measurement ranges please contact O2 Support Group

XTC001 Additional Options

Documentation

* XTC001-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.

XTC601 Binary Gas Analyser

XTC601 Binary Gas Analyser				Background Gas							
Target Gas			Measurement Range	A	B	C	D	E	F	G	H
		Enclosure Suitability		Nitrogen (N2)	Oxygen (O2)	Air	Argon (Ar)	Carbon dioxide (CO2)	Methane (CH4)	Non-methane hydrocarbons (NMHC)	Carbon Monoxide (CO)
				GP1 GP2 EX1	GP1 GP2 EX1	GP1 GP2 EX1	GP1 GP2 EX1	GP1 GP2 EX1	GP2 EX1	GP2 EX1	GP2 EX1
A	Hydrogen (H2)	GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%		Calibration Points up to 3.8%	Calibration Points up to 4%			Calibrated with N2	
			D	Range 0 to 10%						Calibrated with N2	
			E	Range 0 to 20%						Calibrated with N2	
			F	Range 0 to 30%						Calibrated with N2	
			G	Range 0 to 50%						Calibrated with N2	
			H	Range 0 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			J	Range 50 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			K	Range 70 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			L	Range 80 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			M	Range 90 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
N	Range 95 to 100% (H2 & He Target Gas only)		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2				
B	Helium (He)	GP1 GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%						Calibrated with N2	
			D	Range 0 to 10%						Calibrated with N2	
			E	Range 0 to 20%						Calibrated with N2	
			F	Range 0 to 30%						Calibrated with N2	
			G	Range 0 to 50%						Calibrated with N2	
			H	Range 0 to 100%						Calibrated with N2	
			J	Range 50 to 100%						Calibrated with N2	
			K	Range 70 to 100%						Calibrated with N2	
			L	Range 80 to 100%						Calibrated with N2	
			M	Range 90 to 100%						Calibrated with N2	
N	Range 95 to 100% (H2 & He Target Gas only)						Calibrated with N2				
C	Methane (CH4)	GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%		Calibration Points up to 4.2%	Calibration Points up to 4.2%			Calibrated with N2	
			D	Range 0 to 10%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			E	Range 0 to 20%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			F	Range 0 to 30%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			G	Range 0 to 50%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			H	Range 0 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			J	Range 50 to 100%		Calibration points in flammable region performed in N2	Calibration points in flammable region performed in N2			Calibrated with N2	
			K	Range 70 to 100%						Calibrated with N2	
			L	Range 80 to 100%						Calibrated with N2	
			M	Range 90 to 100%						Calibrated with N2	
N	Range 95 to 100% (H2 & He Target Gas only)						Calibrated with N2				
D	Argon (Ar)	GP1 GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%						Calibrated with N2	
			D	Range 0 to 10%						Calibrated with N2	
			E	Range 0 to 20%						Calibrated with N2	
			F	Range 0 to 30%						Calibrated with N2	
			G	Range 0 to 50%						Calibrated with N2	
			H	Range 0 to 100%						Calibrated with N2	
			J	Range 50 to 100%						Calibrated with N2	
			K	Range 70 to 100%						Calibrated with N2	
			L	Range 80 to 100%						Calibrated with N2	
			M	Range 90 to 100%						Calibrated with N2	
N	Range 95 to 100% (H2 & He Target Gas only)						Calibrated with N2				
E	Carbon Dioxide (CO2)	GP1 GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%						Calibrated with N2	
			D	Range 0 to 10%						Calibrated with N2	
			E	Range 0 to 20%						Calibrated with N2	
			F	Range 0 to 30%						Calibrated with N2	
			G	Range 0 to 50%						Calibrated with N2	
			H	Range 0 to 100%						Calibrated with N2	
			J	Range 50 to 100%						Calibrated with N2	
			K	Range 70 to 100%						Calibrated with N2	
			L	Range 80 to 100%						Calibrated with N2	
			M	Range 90 to 100%						Calibrated with N2	
N	Range 95 to 100% (H2 & He Target Gas only)						Calibrated with N2				
F	Nitrogen (N2)	GP1 GP2 EX1	A	Range 0 to 1% (H2 & He Target Gas only)							Calibrated with N2
			B	Range 0 to 2% (H2 & He Target Gas only)						Calibrated with N2	
			C	Range 0 to 5%						Calibrated with N2	
			D	Range 0 to 10%						Calibrated with N2	
			E	Range 0 to 20%						Calibrated with N2	
			F	Range 0 to 30%						Calibrated with N2	
			G	Range 0 to 50%						Calibrated with N2	
			H	Range 0 to 100%						Calibrated with N2	
			J	Range 50 to 100%						Calibrated with N2	
			K	Range 70 to 100%						Calibrated with N2	
			L	Range 80 to 100%						Calibrated with N2	
			M	Range 90 to 100%						Calibrated with N2	

			N	Range 95 to 100% (H2 & He Target Gas only)									Calibrated with N2
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Flammable Gas
Consult Applications Support
No Product One