XTC601

Binary Gas Analyzer

Fixed Configurations				
Hydrogen (H2) Applications				
XTC601-EX1-H202-5	SIL2 capable Hazardous Area certified H2 in O2 analyzer: Range: 05% with Ekraz O-ring, 60°C Cell and flame arrestors. Supplied with Material certificates and CFOS. Equivilent Code - XTC601+EX1+C3+D1+E2+F3+G3+L1+M1			
XTC601-EX1-H202-2	SIL2 capable Hazardous Area certified H2 in O2 analyzer: Range: 02% with Ekraz O-ring, 60°C Cell and flame arrestors. Supplied with Material certificates and CFOS. Equivilent Code - XTC601+EX1+C3+D1+E2+F2+G3+L1+M1			

GP1 General Purpose Analyzer (1/4* NPT(F) gas connections)									
Product Ordering Code (Feature A)-(Feature B)+(Feature C)++(Feature M)+(Feature X)	Configurable	Product							
Pearture A			to a 2 of the total and the to						
Peature A									
Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. Standard reaurars include. HM1 (paskid LCD & disutors), 1965 rates will mounted enclosure, 316 statiniess steel sample paths. A * 2-80m druption, 50-800 facts NTR (Paskid LCD & disutors), 1965 rates will mounted enclosure, 316 statiniess steel sample paths. (P1			Description						
NTC601 Standard Teatures include: IMM (black ICD &1 buttons), IPMS ratiod wall mounted enclosure, 316 stainless steel sample path; a x-2-min adapta, 3 x ADDI cable enthies and 24/40c powered. Feature (8)	Feature {A}	Base Model							
GP1 Second Purpose Analyzer (LPT NTT(F) gas connections)		XTC601 Standard features include: HMI (backlit LCD & 4 buttons), IP66 rated wall mounted enclosure, 316 stainless							
GP2	Feature {B}	Case & Area Class							
Ext		GP1	General Purpose Analyzer (1/4" NPT(F) gas connections)						
Feature (C) Cell O-Ring Material C Viten C Silicone - NOT for use with enriched 02 (ie 02 > 21%) C Silicone - NOT for use vite of use of use of use of use of use of use o		GP2	General Purpose Analyzer with flame arrestors (1/8" NPT(F) gas connections)						
C1 Vition C2 Silicone - NOT for use with enriched O2 (is O2 > 21%)		EX1							
C1 Vition C2 Silicone - NOT for use with enriched O2 (is O2 > 21%)	Feature {C}	Cell O-Ring Ma							
C2 Silicone - NOT for use with enriched O2 (te O2 > 21%)		C1	Viton						
Ca									
Feature (b) Target 6as - verify selection using Sensor Matrix									
D1	Feature (D)		· ·						
D2	reacure (D)								
D3		-							
D4		-							
DS Carbondioxide (CO2)									
D6 Nitrogen									
Peature E Background Gas - verify selection using Sensor Matrix									
Feature Factor Feature Featu		D6	Nitrogen						
E1 Nitrogen (N2)		Ds	Special Target Gas						
E2	Feature {E}	Background G	as - verify selection using Sensor Matrix						
E3		E1	Nitrogen (N2)						
E4		E2	Oxygen (O2) - analyzer supplied CFOS						
E5		E3	Air						
E6		E4	Argon (Ar)						
E6		E5							
E7									
Es Special Background Gas									
Feature Factor									
F1	Feature {F}								
F2	reactive (1)								
F3									
F4									
F5									
F6									
F7									
F8									
F9									
F10									
F11									
F12		F10							
F13 Range 95 to 100% (H2 & He Target Gas only) Feature {G} G1 50°C G3 60°C Feature {L} L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} Mo No material certification * M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group		F11							
Feature {G} G1 50°C G3 60°C Feature {L} L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} Mo No material certification M0 No material certificate to BS EN 10204 – type 3.1 Feature {X} X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group		F12	Range 90 to 100%						
G1 50°C G3 60°C Feature {L} L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} M0 No material certification * M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} Individual Build Options X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group		F13	Range 95 to 100% (H2 & He Target Gas only)						
Feature {L} SIL L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M}	Feature {G}	Cell temperati	ure						
Feature {L} L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M}		G1	50°C						
L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} Material Certification M0 No material certification * M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} Individual Build Options X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group		G3	60°C						
L0 Standard product L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} Material Certification M0 No material certification * M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} Individual Build Options X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group	Feature {L}	SIL	·						
L1 Meets the requirements of IEC61508 (SIL 2 Capable) Feature {M} Material Certification M0 No material certification * M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} Individual Build Options X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group			Standard product						
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* M1 Material certificate to BS EN 10204 – type 3.1 Feature {X} Individual Build Options X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group									
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X3 CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2) X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group	Enature (V)								
X9 Product Review Required NOTE: For other gas combinations and measurement ranges please contact O2 Support Group	reacure (X)								
NOTE: For other gas combinations and measurement ranges please contact O2 Support Group									
* On certain labor intensive services, no discount can be offered. These items are always offered at list price.									
	* On certain lab	oor intensive serv	ices, no discount can be offered. These items are always offered at list price.						

XTC601 Approved Range / Gas Combinations (Background Gas O2 or Air)

•••		J	Target Gas					
Γ			D1	D2	D3	D4	D5	D6
		O2 / Air	H2	He	CH4	Ar	CO2	N2
	F1	0 to 1%						
	F2	0 to 2%						
	F3	0 to 5%	Note 1					
S	F4	0 to 10%						
Sas	F5	0 to 20%						
Background O2 / Air	F6	0 to 30%						
3 %	F7	0 to 50%						
\$ 8	F8	0 to 100%	Note 2		Note 2			
33	F9	50 to 100%	Note 2		Note 2			
7	F10	70 to 100%	Note 2		Note 2			
	F11	80 to 100%	Note 2		Note 2			
	F12	90 to 100%	Note 2		Note 2			
	F13	95 to 100%						

Note 1 Calibration points up to 4%
Note 2 Calibration points in flammable region performed in N2
Good
NOT Allowed
Flammable gas

XTC601 Additional Options

Item Number	Description		
Calibration			
XTP-ATP	Additional Test Point - Contact O2 Support Group for Pricing		
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		
* GEN-DOC	Certificate of Conformity		

XTC601 Spares and Accessories

ATCOUL Spares and Accessories				
GUB accessories				
XTC601-BLANKPLUG	Blanking Plug			
XTC601-M20CONDUIT	20 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			
EN-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			
GEN-2PK-FIT-C	1/8" NPT to 6mm Swagelok Tube Adaptor			
Display				
XTC601-GP-HMI	Display assembly for GP model			
XTC601-EX-HMI	Display assembly for EX model			
Miscellaneous				
XTC601-RC	Ribbon cable assembly			
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples			
* On certain labor intensive service	es, no discount can be offered. These items are always offered at list price.			

XTC601-HCG

Binary Gas Analyzer for Hydrogen Cooled Generators

Configurable	onfigurable Product					
Product Orde	Product Ordering Code {Feature A}-{Feature B}+{Feature C}++{Feature E}+{Feature M}+{Feature X (only if required)}					
Feature	Item	Description				
Feature {A}	Base Model					
	XTC601	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.				
Feature {B}	Case & Area C	lass				
	EX1	Explosion-proof Analyzer for use in hazardous areas with flame arrestors (1/8" NPT(F) gas connections)				
Feature {C}	Cell O-Ring Ma	aterial				
	C1	0				
Feature {D}	Gas					
	D-HCG	H2/Air+H2/CO2+CO2/Air				
Feature {E}	Background Gas					
	E0	HCG only				
Feature {F}	Range (H2/Air only)					
	F10	Range 70 to 100%				
	F11	Range 80 to 100%				
	F12	Range 90 to 100%				
Feature {G}	Background G	as				
	G3	60°C				
Feature {M}	Material Certi	fication				
	M0	No material certification				
	* M1	Material certificate to BS EN 10204 – type 3.1				
* On certain la	bor intensive se	rvices, no discount can be offered. These items are always offered at list price.				

XTC601 Additional Options

Item Number	Description		
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		
* GEN-DOC	Certificate of Conformity		

XTC601 Spares and Accessories

GUB 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 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			
GEN-2PK-FIT-C	1/8" NPT to 6mm Swagelok Tube Adaptor			
Display				
XTC601-EX-HMI	Display assembly for EX model			
Miscellaneous				
XTC601-RC	Ribbon cable assembly			
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples			
* On certain labor intensive servi	On certain labor intensive services, no discount can be offered. These items are always offered at list price.			

XTC501

Binary Gas Analyzer

Fixed Configurations				
Hydrogen (H2) Application	ns			
XTC501-1-H2N2-5	General Purpose H2 in N2 analyzer: Range: 05% Supplied with display, Power, Output & Alarm cables, Ekraz Sensor Cell Oring and Material certificates. Equivilent Code - XTC501+GP1+C1+D1+E1+F2+M1+X1			
XTC501-1-H2N2-10	General Purpose H2 in N2 analyzer: Range: 010% Supplied with display, Power, Output & Alarm cables, Ekraz Sensor Cell O-ring and Material certificates. Equivilent Code - XTC501+GP1+C2+D1+E1+F2+M1+X1			
XTC501-1-H2N2-100	General Purpose H2 in N2 analyzer: Range: 0100% Supplied with display, Power, Output & Alarm cables, Ekraz Sensor Cell O-ring and Material certificates. Equivilent Code - XTC501+GP1+C5+D1+E1+F2+M1+X1			
XTC501-1-H202-5	General Purpose H2 in O2 analyzer: Range: 05% Supplied with display, Power, Output & Alarm cables, Ekraz Sensor Cell Oring, cleaned for O2 service and with Material certificates. Equivilent Code - XTC501+GP1+C1+D1+E4+F2+M1+X1+X3			

Configurable	Product	
Product Orde	ring Code {Feat	ture A}-{Feature B}+{Feature C}+{Feature D}+{Feature E}
Feature	Item	Description
Feature {A}	Base Model	<u> </u>
	XTC501	Process Binary Gas analyzer utilising thermal conductivity technology with a sealed reference sensor. Standard features include: 316 stainless steel sensor heated to 50C, 316 stainless steel sample path, viton O-ring seal, 1/8 bulkhead gas fittings, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x concentration alarms, 24Vdc powered and housed in an IP55 rated enclosure.
Feature {B}	Туре	
	GP1	General Purpose Analyzer with display
	GP2	General Purpose Transmitter
Feature {C}	Range - verify	selection using Sensor Matrix
	C1	Range 0 to 5%
	C2	Range 0 to 10%
	C3	Range 0 to 20%
	C4	Range 0 to 50%
	C5	Range 0 to 100%
	C6	Range 50 to 100%
	C7	Range 80 to 100%
	C8	Range 90 to 100%
	C9	Range 95 to 100% (H2 & He Target Gas only)
Feature {D}		erify selection using Sensor Matrix
reacure (D)	D1	Hydrogen (H2)
	D2	Helium (He)
	D3	Carbon Dioxide (CO2)
	D4	Argon (Ar)
	D5	Nitrogen (N2)
Feature {E}		as - verify selection using Sensor Matrix
reactive (L)	E1	Nitrogen (N2)
	E2	Air
	E3	Carbon Dioxide (CO2)
	E4	Oxygen (O2) - analyzer supplied CFOS
	E5	Argon (Ar)
Feature {F}	Cables	Aigon (Ai)
reacure (1)	F0	Loose connectors
	F1	Power & Output (5m) and loose connector
	F2	Power, Output & Alarm (5m) and loose connector
	F3	Power, Output, Alarm and Input (5m)
Fosturo (M)	Material Certif	
Feature {M}	M0	No material certification
	* M1	
Eastura (V)	Special option	Material certificate to BS EN 10204 – type 3.1
Feature {X}	X1	· · · · · · · · · · · · · · · · · · ·
	X3	Ekraz Sensor Cell O-ring CEOS - Cloaned for O3 convice (standard with O3 ranges > 35% O3)
		CFOS - Cleaned for O2 service (standard with O2 ranges >25% O2)

NOTE: The XTC501 is available with the listed background gases and with minimum range of 0-5%. We may offer special backgrounds or lower ranges with reduced accuracy on application. Orders will not be accepted unless application has been tested and authorisation to quote granted.

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

XTC501 Approved Range / Gas Combinations (Background Gas O2 or Air)

			l arget Gas				
			D1	D2	D3	D4	D5
		O2 / Air	H2	He	CO2	Ar	N2
	C1	0 to 5%	Note 1				
SS.	C3	0 to 20%					
Background Gas O2 / Air	C4	0 to 50%					
2 A	C5	0 to 100%					
\$8	C6	50 to 100%					
Ž,	C7	80 to 100%					
Ø	C8	90 to 100%					
	C9	95 to 100%					

Note 1 Calibration points up to 4%
Good
NOT Allowed
Flammable gas

XTC501 Additional Options

A 1 CO C 1 / Add to C C C C C C C C C C C C C C C C C C			
Item Number	Description		
Calibration			
XTC-ATP	Additional Test Point - Contact O2 Support Group for Pricing		
Warranty			
* XTC501-EW24	Extended warranty 24 months from invoice date		
* XTC501-EW36	Extended warranty 36 months from invoice date		
Documentation			
* EXPORT-DOCS	Certificate of Origin from the Chamber of Commerce		
* GEN-DOC	Certificate of Conformity		
* GEN-DOC-B	0		

XTC501 Spares and Accessories

Cables and connectors	
XTX501-HMI-IC-0.5	0.5m interconnect cable
XTX501-HMI-IC-01	1m interconnect cable
XTX501-HMI-IC-02	2m interconnect cable
XTX501-MCA	Mating Connector-alarms
XTX501-MCP	Mating Connector-power
XTX501-MCS	Mating Connector-signal output
XTX501-MCSI	Mating Connector-signal input
XTX501-MCA-05	Connector: Alarms with 5m cable fitted
XTX501-MCS-05	Connector:Signals out with 5m cable fitted
XTX501-MCSI-05	Connector:Signals in with 5m cable fitted
XTX501-MCP-05	Connector:Power with 5m cable fitted
XTX501-TC	Tamperproof cover for power interupt switch
Display	
XTX501-HMI-RD	Remote Display 501series for Transmitter configuration (GP2)
* On certain labor intensive services, no discount can be offered. These items are always offered at list price.	

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: XTC Series Order Codes_ 97440_V15_UK_0723