

## XTC501

**Binary Gas Analyzer** 

Product Orde	ring Code {Fea	ture A}-{Feature B}+{Feature C}+{Feature D}+{Feature E}
Feature	Item	Description
Feature {A}	Base Model	
	XTC501	Base unit
Feature {B}	Туре	
	GP1	General Purpose Analyzer with display
	GP2	General Purpose Transmitter
Feature {C}	Range	
	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%
Feature {D}	Target Gas	
	D1	Hydrogen
	D2	Helium
	D3	Carbon-dioxide
	D4	Argon
	D5	Nitrogen
eature {E}	Background Gas	
	E1	Nitrogen
	E2	Air
	E3	Carbon-dioxide
	E4	Oxygen (unit will be CFOS).
	EXX	Special gas mixture**
Feature {F}	Cables	
	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)

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

XTC501-GP1+C5+D1+E1+F0	XTC501 with full display, Viton Cell O-Ring, 0 to 100% H2 in Nitrogen background gas
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### XTC601-GP

Binary Gas A	Analyzer	
	nt Code: XTC601	
		as standard with: MODBUS RTU over RS485 Protocol, 2 concentration alarms, 2x 4-20mA outputs inputs and
24V DC powe		<pre>ure A}-{Feature B}+{Feature C}++{Feature M}+{Feature X (only if required)}</pre>
	Item	
Feature	Base Model	Description
Feature {A}	XTC601-GP	Dana
Frature (B)		Base unit
Feature {B}	Case & Area Cla B1	
Fasture (C)		General Purpose Analyzer
Feature {C}	Cell O-Ring Mat	
	C1	Viton
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
Feature {D}	Target Gas	
	D1	Hydrogen (H2)*
	D2	Helium (He)
	D3	Methane (CH4)*
	D4	Argon (Ar)
	D5	Carbondioxide (CO2)
	DS	Special Target Gas*
Feature {E}	Background Gas	5
	E1	Nitrogen (N2)
	E2	Oxygen (O2) - analyzer supplied CFOS*
	E3	Air*
	E4	Argon (Ar)
	E5	Carbondioxide (CO2)
	E6	Methane (CH4)
	E7	Non-methanane hydrocarbons (NMHC)
	ES	Special Background Gas*
Feature {F}	Range	
	F1	Range 0 to 1% (H2 or He only)
	F2	Range 0 to 2% (H2 or He only)
	F3	Range 0 to 5%
	F4	Range 0 to 10%
	F5	Range 0 to 20%
	F6	Range 0 to 30%
	F7	Range 0 to 50%
	F8	Range 0 to 100%
	F9	Range 50 to 100%
	F10	Range 70 to 100%
	F11	Range 80 to 100%
	F12	Range 90 to 100%
Feature {G}	Cell temperatur	e e
	G1	50°C
	G3	60°C
Feature {L}	SIL rated	•
	LO	Standard product
	L1	Meets the requirements of IEC61508 SIL 2
Feature {M}	Material Certific	
	MO	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1
Feature {X}	Special cleaning	
	X3	Cleaned for oxygen service (Not required with Option E2 (included as standard))
	X9	Product Review Required
*Flammahle mi	xtures are not allow	
**The XTC601	is generally only av	vailable with a minimum range of 0-5%, we may offer lower ranges with reduced accuracy on application. Orders will not be

\*\*The XTC601 is generally only available with a minimum range of 0-5%, we may offer lower ranges with reduced accuracy on application. Orders will not be accepted unless application has been tested and authorisation to quote granted.

XTC601- GP+B1+C1+D2+E1+F1+G1+ L0+M1 General Purpose+Viton O-ring+Helium target + Nitrogen background+0-1% range + 50°C sensor + standard product + material certs.	
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## **XTC601-GP ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTC601-EW24	Extended warranty 24 months from invoice date
XTC601-EW36	Extended warranty 36 months from invoice date
XTC601-RC	Ribbon cable assembly
XTC601-GP-HMI	Display assembly for GP model
XTC601-BLANKPLUG	Blanking Plug
XTC601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP only)
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTC601-1/4"	1/4" tube adapter fitting
XTC601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB

## **XTC601-GP2**

### Binary Gas Analyzer (with HMI)

Product Orde	ering Code {Feat	ture A}-{Feature B}+{Feature C}++{Feature M}+{Feature X (only if required)}
Feature	Item	Description
Feature {A}	Base Model	
	XTC601-GP	Base unit
Feature {B}	Case & Area C	lass
	B2	General Purpose Analyzer with Flame Arrestors
Feature {C}	Cell O-Ring Ma	iterial
	C1	Viton
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
Feature {D}	Target Gas	
	D1	Hydrogen (H2)*
	D2	Helium (He)
	D3	Methane (CH4)*
	D4	Argon (Ar)
	D5	Carbondioxide (CO2)
	DS	Special Target Gas*
Feature {E}	Background Ga	as
	E1	Nitrogen (N2)
	E2	Oxygen (O2) - analyzer supplied CFOS*
	E3	Air*
	E4	Argon (Ar)
	E5	Carbondioxide (CO2)
	E6	Methane (CH4)
	E7	Non-methanane hydrocarbons (NMHC)
	ES	Special Background Gas*
Feature {F}	Range	
	F1	Range 0 to 1% (H2 or He only)
	F2	Range 0 to 2% (H2 or He only)
	F3	Range 0 to 5%
I	F4	Range 0 to 10%
	17	
	F5	Range 0 to 20%
	F5	Range 0 to 20%
	F5 F6	Range 0 to 20%       Range 0 to 30%
	F5 F6 F7	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%
	F5 F6 F7 F8	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%
	F5 F6 F7 F8 F9	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%
	F5 F6 F7 F8 F9 F10	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%           Range 70 to 100%
Feature {G}	F5 F6 F7 F8 F9 F10 F11	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%
Feature {G}	F5 F6 F7 F8 F9 F10 F11 F12	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%
Feature {G}	F5 F6 F7 F8 F9 F10 F11 F12 Cell temperatu	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%
	F5 F6 F7 F8 F9 F10 F11 F12 Cell temperatu G1	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%         Sange 90 to 100%         So°C
	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%         Sange 90 to 100%         So°C
	F5 F6 F7 F8 F9 F10 F11 F12 <b>Cell temperatu</b> G1 G3 <b>SIL rated</b>	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%         Range 90 to 100%         Free         50°C         60°C
Feature {L}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%         Range 90 to 100%         Standard product         Meets the requirements of IEC61508 SIL 2
Feature {L}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1	Range 0 to 20%         Range 0 to 30%         Range 0 to 50%         Range 0 to 100%         Range 50 to 100%         Range 70 to 100%         Range 80 to 100%         Range 90 to 100%         Range 90 to 100%         Standard product         Meets the requirements of IEC61508 SIL 2
Feature {L}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%           Range 70 to 100%           Range 80 to 100%           Range 90 to 100%           Image 90 to 100%           Standard product           Meets the requirements of IEC61508 SIL 2
Feature {L} Feature {M}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1           Material Certif           M0	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%           Range 80 to 100%           Range 90 to 100%           Range 90 to 100%           Image 90 to 100%           Soo°C           60°C           Standard product           Meets the requirements of IEC61508 SIL 2           ication           No material certification           Material certificate to BS EN 10204 – type 3.1
Feature {L} Feature {M}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1           Material Certif           M0           M1	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%           Range 80 to 100%           Range 90 to 100%           Range 90 to 100%           Image 90 to 100%           Soo°C           60°C           Standard product           Meets the requirements of IEC61508 SIL 2           ication           No material certification           Material certificate to BS EN 10204 – type 3.1
Feature {G} Feature {L} Feature {M} Feature {X}	F5           F6           F7           F8           F9           F10           F11           F12           Cell temperatu           G1           G3           SIL rated           L0           L1           Material Certif           M0           M1           Special cleanir	Range 0 to 20%           Range 0 to 30%           Range 0 to 50%           Range 0 to 100%           Range 50 to 100%           Range 80 to 100%           Range 90 to 100%           Range 90 to 100%           Image 80 to 100%           Standard product           Meets the requirements of IEC61508 SIL 2           ication           No material certification           Material certificate to BS EN 10204 – type 3.1           bg procedure

XTC601- GP+B2+C1+D1+E3+F3+G1+ L1+M0	General purpurse with flame arrestors + Viton O-ring + H2 Target Gas in Air + 0 to 5% Range + 50°C cell + SIL2.
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# **XTC601-GP2 ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTC601-EW24	Extended warranty 24 months from invoice date
XTC601-EW36	Extended warranty 36 months from invoice date
XTC601-RC	Ribbon cable assembly
XTC601-BLANKPLUG	Blanking Plug
XTC601-GP-HMI	Display assembly for GP model
XTC601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP only)
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTC601-1/4"	1/4" tube adapter fitting
XTC601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB
XTC601-1/4"-SC11	1/4" tube adapter fitting (Oxygen cleaned)
XTC601-6MM-SC11	6mm Tube Adapter Fitting (Oxygen cleaned)

### **XTC601-EX**

#### **Binary Gas Analyzer**

Binary Gas A	-		
	t Code: XTC601 alyzer supplied	-EX as standard with: MODBUS RTU over RS485 Protocol, 2 concentration alarms, 2x 4-20mA outputs and 24V DC	
roduct Order	ing Code {Feat	ure A}-{Feature B}+{Feature C}++{Feature E}+{Feature M}+{Feature X (only if required)}	
eature	Item	Description	
eature {A}	Base Model		
	XTC601-EX	Binary Gas Analyzer	
eature {B}	Case & Area C		
	1	Hazardous Area Analyzer with display	
eature {C}	Cell O-Ring M	Cell O-Ring Material	
	C1	Viton	
	C2	Silicone - Not for use with enriched O2 (ie > 21%)	
	C3	Ekraz	
eature {D}	Target Gas		
eature (D)	D1	Hydrogen (H2)*	
	D1 D2		
		Helium (He)	
	D3	Methane (CH4)*	
	D4	Argon (Ar)	
	D5	Carbondioxide (CO2)	
	DS	Special Target Gas*	
eature {E}	Background G		
	E1	Nitrogen (N2)	
	E2	Oxygen (O2) - analyzer supplied CFOS*	
	E3	Air*	
	E4	Argon (Ar)	
	E5	Carbondioxide (CO2)	
	E6	Methane (CH4)	
	E7	Non-methanane hydrocarbons (NMHC)	
	ES	Special Background Gas*	
eature {F}	Range		
	F1	Range 0 to 1% (H2 or He only)	
	F2	Range 0 to 2% (H2 or He only)	
	F3	Range 0 to 5%	
	F4	Range 0 to 10%	
	F5	Range 0 to 20%	
	F6	Range 0 to 30%	
	F7	Range 0 to 50%	
	F8	Range 0 to 100%	
	F9	Range 50 to 100%	
	F10	Range 70 to 100%	
	F11	Range 80 to 100%	
	F12	Range 90 to 100%	
eature {G}	Cell temperat	*	
eature {G}	G1		
	G1 G3	50°C	
	_	60°C	
eature {L}	SIL rated		
	LO	Standard product	
	L1	Meets the requirements of IEC61508 SIL 2	
	Material Certi		
eature {M}		No material certification	
eature {M}	M0		
eature {M}	M0 M1	Material certificate to BS EN 10204 – type 3.1	
		Material certificate to BS EN 10204 – type 3.1	
eature {M}	M1	Material certificate to BS EN 10204 – type 3.1	
	M1 Special cleani	Material certificate to BS EN 10204 – type 3.1 ng procedure	

\*\*The XTC601 is generally only available with a minimum range of 0-5%, we may offer lower ranges with reduced accuracy on application. Orders will not be accepted unless application has been tested and authorisation to quote granted.

XTC601-EX+	
	Binary Gas Analyzer+ Hazardous Area+ Viton+ Hydrogen (H2)+ Oxygen (O2) - analyzer supplied CFOS+
+L0+M1	Range 0 to 5%+60°C Cell+ Standard Product+ Material certificate to BS EN 10204 – type 3.1



# **XTC601-EX ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTC601-EW24	Extended warranty 24 months from invoice date
XTC601-EW36	Extended warranty 36 months from invoice date
XTC601-RC	Ribbon cable assembly
XTC601-BLANKPLUG	Blanking Plug
XTC601-EX-HMI	Display assembly for EX model
XTC601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTC601-1/4"	1/4" tube adapter fitting
XTC601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB
XTC601-1/4"-SC11	1/4" tube adapter fitting (Oxygen cleaned)
XTC601-6MM-SC11	6mm Tube Adapter Fitting (Oxygen cleaned)



## **XTC601-EX**

#### **Binary Gas Analyzer**

inputs and 24V DC powered. 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-EX	Binary Gas Analyzer
Feature {B}	Case & Area C	lass
	1	Hazardous Area Analyzer with display
Feature {C}	Cell O-Ring Ma	aterial
	C1	Viton
Feature {D}	Gas	
	D-HCG	H2/Air+H2/CO2+CO2/Air
Feature {E}	Background Gas	
	E0	HCG only
Feature {F}	Range	
	F10	Range 70 to 100%
	F11	Range 80 to 100%
	F12	Range 90 to 100%
Feature {G}	Background Gas	
	G1	50°C
	G3	60°C
Feature {M}	Material Certif	ication
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1

#### **Ordering Example**

XTC601-EX+1+C1+ D-HCG+E0+F12+G3+L0+M0	Hazardous area with HCG calibration + Viton O-Ring+90 to 100% H2 in Air range + 60°C cell.

### **XTC601-EX ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTC601-EW24	Extended warranty 24 months from invoice date
XTC601-EW36	Extended warranty 36 months from invoice date
XTC601-RC	Ribbon cable assembly
XTC601-BLANKPLUG	Blanking Plug
XTC601-EX-HMI	Display assembly for EX model
XTC601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTC601-1/4"	1/4" tube adapter fitting
XTC601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB

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\_V11\_UK\_0321