

# XTP501

## Thermo-Paramagnetic Oxygen Analyzer

**Product Parent Code: XTP501**  
 Thermo-paramagnetic oxygen analyzer supplied as standard with: 316 SS sensor heated to 50°C in a Nitrogen background, Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 1/8" Bulkhead Gas Fittings and 24V DC powered.

Fixed Configurations		
<b>Feature {A}</b>	XTP501-GP1-STD1	Full HMI, Ranged 0 to 25% O2 (calibrated 0 to 21%)
	XTP501-GP1-STD2	Full HMI, Ranged 80 to 100% O2

### Configurable Product

Product Ordering Code {Feature A}+{Feature B}+{Feature C}		
Feature	Item	Description
<b>Feature {A}</b>	<b>Base Model</b>	
	XTP501	Base unit
<b>Feature {B}</b>	<b>Case &amp; Area Class</b>	
	GP1	General Purpose Analyzer with display
	GP2	General Purpose Transmitter
<b>Feature {C}</b>	<b>Range</b>	
	C1	Range 0 to 1% Oxygen
	C2	Range 0 to 5% Oxygen
	C3	Range 0 to 25% Oxygen
	C4	Range 20 to 100% Oxygen
	C5	Range 80 to 100% Oxygen
	C6	Range 90 to 100% Oxygen
	C7	Range 0 to 50% Oxygen
<b>Feature {F}</b>	<b>Cables</b>	
	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)
<b>Feature {X}</b>	<b>Special cleaning procedure</b>	
	X3	Cleaned for O2 service (standard with enriched O2 ranges)

### Ordering Example

<b>XTP501-GP1+C3+F0</b>	<b>XTP501 with full display ranged 0 to 25% oxygen</b>
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## XTP601-GP

### Thermo-Paramagnetic Oxygen Analyzer

<b>Product Parent Code: XTP601</b>		
Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
<b>Fixed Configurations</b>		
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/4" NPT Gas Fittings - materials certs included.		
<b>Feature {A}</b>	XTP601-GP1-C1-STD	General Purpose with Viton O-ring
<b>Feature {A}</b>	XTP601-GP1-C1-SIL2	Hazardous Area analyzer with Viton O-ring + the requirements of IEC61508 SIL2
<b>Configurable Product</b>		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+...+{Feature F}+{Feature M}		
Feature	Item	Description
<b>Feature {A}</b>	<b>Base Model</b>	
	XTP601	Base unit
<b>Feature {B}</b>	<b>Case &amp; Area Class</b>	
	GP1	General Purpose Analyzer with display
<b>Feature {C}</b>	<b>Cell O-Ring Material</b>	
	C1	Viton
	C1E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
	C3E	Ekraz (enriched oxygen ranges)
<b>Feature {D}</b>	<b>Range</b>	
	D1	Range 0 to 1% Oxygen
	D2	Range 0 to 2% Oxygen
	D3	Range 0 to 5% Oxygen
	D4	Range 0 to 10% Oxygen
	D5	Range 0 to 21% Oxygen
	D6	Range 0 to 25% Oxygen (calibrated 0 to 21%)
	D7	Range 0 to 50% Oxygen
	D8	Range 80 to 100% Oxygen
	D9	Range 90 to 100% Oxygen
	D10	Range 50 to 100% Oxygen
	D11	Range 0 to 4% Oxygen
	D12	Range 0 to 0.5% Oxygen
	D13	Range 20 to 100% Oxygen
	D15	Range 95 to 100% Oxygen
	D1A	Range 0 to 1% Oxygen ("A" suffix denotes O2 as air ingress)
	D2A	Range 0 to 2% Oxygen ("A" suffix denotes O2 as air ingress)
	D3A	Range 0 to 5% Oxygen ("A" suffix denotes O2 as air ingress)
D4A	Range 0 to 10% Oxygen ("A" suffix denotes O2 as air ingress)	
D5A	Range 0 to 21% Oxygen ("A" suffix denotes O2 as air ingress)	
<b>Feature {E}</b>	<b>Background Gas</b>	
	E1	Nitrogen
	E2	Carbon Dioxide
	E6	Natural Gas
<b>Feature {F}</b>	<b>Cell temperature</b>	
	F1	Cell temp 50°C
	F3	Cell temp 50°C
	F5	Cell temp 70°C
<b>Feature {L}</b>	<b>SIL rated</b>	
	L0	Standard product
	L1	Meets the requirements of IEC61508 SIL 2
<b>Feature {M}</b>	<b>Material Certification</b>	
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1

Feature {X}	Special cleaning procedure	
	X3	Cleaned for O2 service (standard with enriched O2 ranges)
X9	Product Review Required	

\*Flammable mixtures are not allowed

**Ordering Example**

<b>XTP601-GP1 +C2+D3+E2+F1+L0+M0</b>	<b>XTP601 with full display, Silicone Cell O-Ring, 0 to 5% oxygen range, Carbon Dioxide background gas, 50°C temperature, no material certificates</b>
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**XTP601-GP ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTP601-EW24	Extended warranty 24 months from invoice date
XTP601-EW36	Extended warranty 36 months from invoice date
XTP601-RC	Ribbon cable assembly
XTP601-GP-HMI	Display assembly for GP model
XTP601-BLANKPLUG	Blanking Plug
XTP601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP only)
XTP601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTP601-14198	GUB Lid o-ring
XTP601-6371	Interface Plate XM
XTP601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB
XTP601-TFUUSE	Thermal Fuse (70°C)
XTP601-SER	XTP601 returned for service
XTP601-1/4"	1/4" NPTF to 1/4" TUBE ADAPTOR

## XTP601-GP

### Thermo-Paramagnetic Oxygen Analyzer (with HMI)

<b>Product Parent Code: XTP601</b>		
Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
<b>Configurable Product</b>		
<b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+...+{Feature F}+{Feature M}</b>		
Feature	Item	Description
<b>Feature {A}</b>	<b>Base Model</b>	
	XTP601	Base unit
<b>Feature {B}</b>	<b>Case &amp; Area Class</b>	
	GP2	General Purpose Analyzer with Flame Arrestors
<b>Feature {C}</b>	<b>Cell O-Ring Material</b>	
	C1	Viton
	C1E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
	C3E	Ekraz (enriched oxygen ranges)
<b>Feature {D}</b>	<b>Range</b>	
	D1	Range 0 to 1% Oxygen
	D2	Range 0 to 2% Oxygen
	D3	Range 0 to 5% Oxygen
	D4	Range 0 to 10% Oxygen
	D5	Range 0 to 21% Oxygen
	D6	Range 0 to 25% Oxygen (calibrated 0 to 21%)
	D7	Range 0 to 50% Oxygen
	D8	Range 80 to 100% Oxygen
	D9	Range 90 to 100% Oxygen
	D10	Range 50 to 100% Oxygen
	D11	Range 0 to 4% Oxygen
	D12	Range 0 to 0.5% Oxygen
	D13	Range 20 to 100% Oxygen
	D15	Range 95 to 100% Oxygen
	D1A	Range 0 to 1% Oxygen ("A" suffix denotes O2 as air ingress)
	D2A	Range 0 to 2% Oxygen ("A" suffix denotes O2 as air ingress)
	D3A	Range 0 to 5% Oxygen ("A" suffix denotes O2 as air ingress)
	D4A	Range 0 to 10% Oxygen ("A" suffix denotes O2 as air ingress)
	D5A	Range 0 to 21% Oxygen ("A" suffix denotes O2 as air ingress)
<b>Feature {E}</b>	<b>Background Gas</b>	
	E1	Nitrogen
	E2	Carbon Dioxide
	E3	Methane
	E4	Hydrogen
	E5	BIOGAS (60%CH4/40%CO2) - unless otherwise stated
	E6	Natural Gas
<b>Feature {F}</b>	<b>Cell temperature</b>	
	F1	Cell temp 50°C
	F3	Cell temp 60°C
	F5	Cell temp 70°C
<b>Feature {L}</b>	<b>SIL rated</b>	
	L0	Standard product
	L1	Meets the requirements of IEC61508 SIL 2
<b>Feature {M}</b>	<b>Material Certification</b>	
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1

Feature {X}	Special cleaning procedure	
	X3	Cleaned for O2 service (standard with enriched O2 ranges)
	X9	Product Review Required

\*For potentially flammable mixtures please consult the factory.

#### Ordering Example

<b>XTP601-GP2 +C2+D5A+E4+F1+L0+M0</b>	<b>XTP601 with flame arrestors, Silicone Cell O-Ring, 0 to 21% oxygen range (as air ingress), H2 background gas, 50°C temperature, no material certificates</b>
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### XTP601-GP ACCESSORIES AND SPARE PARTS

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTP601-EW24	Extended warranty 24 months from invoice date
XTP601-EW36	Extended warranty 36 months from invoice date
XTP601-RC	Ribbon cable assembly
XTP601-GP-HMI	Display assembly for GP model
XTP601-BLANKPLUG	Blanking Plug
XTP601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP only)
XTP601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTP601-14198	GUB Lid o-ring
XTP601-6371	Interface Plate XM
XTP601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB
XTP601-TFUSE	Thermal Fuse (70°C)
XTP601-SER	XTP601 returned for service
XTP601-1/4"	1/4" NPTF to 1/4" TUBE ADAPTOR

## XTP601-EX

### Thermo-Paramagnetic Oxygen Analyzer

<b>Product Parent Code: XTP601</b>		
Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
<b>Fixed Configurations</b>		
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/8" NPT Gas Fittings - Materials certs included.		
<b>Feature {A}</b>	XTP601-EX1-C1-STD	Hazardous Area analyzer with Viton O-ring
	XTP601-EX1-C2-STD	Hazardous Area analyzer with Silicone O-ring
	XTP601-EX1-C3-STD	Hazardous Area analyzer with EKRAZ O-ring
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/8" NPT Gas Fittings - Materials certs included.		
<b>Feature {A}</b>	XTP601-EX1-C1-SIL2	Hazardous Area analyzer with Viton O-ring + the requirements of IEC61508 SIL2
	XTP601-EX1-C2-SIL2	Hazardous Area analyzer with Silicone O-ring + the requirements of IEC61508 SIL2
	XTP601-EX1-C3-SIL2	Hazardous Area analyzer with EKRAZ O-ring + the requirements of IEC61508 SIL2

### Configurable Product

Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature K}+{Feature W}		
Feature	Item	Description
<b>Feature {A}</b>	<b>Base Model</b>	
	XTP601	Base unit
<b>Feature {B}</b>	<b>Case &amp; Area Class</b>	
	EX1	Hazardous Area Analyzer with display
<b>Feature {C}</b>	<b>Cell O-Ring Material</b>	
	C1	Viton
	C2E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
	C3E	Ekraz (enriched oxygen ranges)
<b>Feature {D}</b>	<b>Range</b>	
	D1	Range 0 to 1% Oxygen
	D2	Range 0 to 2% Oxygen
	D3	Range 0 to 5% Oxygen
	D4	Range 0 to 10% Oxygen
	D5	Range 0 to 21% Oxygen
	D6	Range 0 to 25% Oxygen (calibrated 0 to 21%)
	D7	Range 0 to 50% Oxygen
	D8	Range 80 to 100% Oxygen
	D9	Range 90 to 100% Oxygen
	D10	Range 50 to 100% Oxygen
	D11	Range 0 to 4% Oxygen
	D12	Range 0 to 0.5% Oxygen
	D13	Range 20 to 100% Oxygen
	D1A	Range 0 to 1% Oxygen ("A" suffix denotes O2 as air ingress)
D2A	Range 0 to 2% Oxygen ("A" suffix denotes O2 as air ingress)	
D3A	Range 0 to 5% Oxygen ("A" suffix denotes O2 as air ingress)	
D4A	Range 0 to 10% Oxygen ("A" suffix denotes O2 as air ingress)	
D5A	Range 0 to 21% Oxygen ("A" suffix denotes O2 as air ingress)	
<b>Feature {E}</b>	<b>Background Gas</b>	
	E1	Nitrogen
	E2	Carbon Dioxide
	E3	Methane
	E4	Hydrogen
	E5	BIOGAS (60%CH4/40%CO2) - unless otherwise stated
<b>Feature {F}</b>	<b>Cell temperature</b>	
	F1	Cell temp 50°C
	F3	Cell temp 60°C
<b>Feature {L}</b>	<b>SIL rated</b>	
	L0	Standard product
L1	Meets the requirements of IEC61508 SIL 2	
<b>Feature {M}</b>	<b>Material Certification</b>	
	M0	No material certification
M1	Material certificate to BS EN 10204 – type 3.1	
<b>Feature {W}</b>	<b>Material Certification (only add if the unit is destined for Brasil)</b>	
W1	INMETRO Certification	
<b>Feature {X}</b>	<b>Special cleaning procedure</b>	
	X3	Cleaned for O2 service (standard with enriched O2 ranges)
X9	Product Review Required	
*For potentially flammable mixtures please consult the factory.		
** The maximum standard range for Oxygen in Hydrogen is 0 to 4%.		

### Ordering Example

XTP601-EX1+C2+D3+E2+F1+L0+M0+W1	XTP601 with full display, Silicone Cell O-Ring, 0 to 5% oxygen range, Carbon Dioxide background gas, 50°C temp, no material certificates, with INMETRO certification
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**XTP601-EX ACCESSORIES AND SPARE PARTS**

Order Codes	Product / Description
PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples
XTP601-EW24	Extended warranty 24 months from invoice date
XTP601-EW36	Extended warranty 36 months from invoice date
XTP601-RC	Ribbon cable assembly
XTP601-BLANKPLUG	Blanking Plug
XTP601-EX-HMI	Display assembly for EX model
XTP601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
XTP601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
XTP601-14198	GUB Lid o-ring
XTP601-6371	Interface Plate XM
XTP601-6MM	6mm tube adapter fitting
XTP601-26149	Fuse for main PCB
XTP601-TFUUSE	Thermal Fuse (70°C)
XTP601-1/4"	1/4" NPTF to 1/4" TUBE ADAPTOR

**Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: XTP Series Order Codes\_97314\_V12\_UK\_1121**