

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

Feature {A}	XTP501-GP1-STD1	General Purpose wall mounted thermoparamagnetic oxygen analyzer ranged 80...100% O2 in N2. Standard features include: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), 24V DC powered and housed in an IP55 rated enclosure.
	XTP501-GP1-STD2	General Purpose wall mounted thermoparamagnetic oxygen analyzer. Standard features include: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, 24V DC powered and housed in an IP55 rated enclosure.

Configurable Product

Product Ordering Code {Feature A}+{Feature B}+{Feature C}		
Feature	Item	Description
Feature {A}	Base Model	
	XTP501	General Purpose wall mounted thermoparamagnetic oxygen analyzer. Standard features include: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, 24V DC powered and housed in an IP55 rated enclosure.
Feature {B}	Case & Area Class	
	GP1	Analyzer with HMI (backlit LCD & 4 buttons)
	GP2	Transmitter with Status LED
Feature {C}	Range	
	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
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)
Feature {M}	Material Certification	
	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)

Ordering Example

XTP501-GP1+C3+F0+M0	XTP501 with full display ranged 0 to 25% oxygen
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XTP601-GP

Thermo-Paramagnetic Oxygen Analyzer

Product Parent Code: XTP601		
Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
Fixed Configurations		
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/4" NPT Gas Fittings - materials certs included.		
Feature {A}	XTP601-GP1-C1-STD	General Purpose oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Viton O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
Feature {A}	XTP601-GP1-C1-SIL2	IEC61508 SIL2 capable General Purpose oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Viton O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
Configurable Product		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+...+{Feature F}+{Feature M}		
Feature	Item	Description
Feature {A}	Base Model	
	XTP601	Thermoparamagnetic oxygen analyzer. Supplied with: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), 24V DC powered in an IP66 rated wall mounted enclosure.
Feature {B}	Case & Area Class	
	GP1	General Purpose Analyzer with 1/4" NPTF gas connections
Feature {C}	Cell O-Ring Material	
	C1	Viton
	C1E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
	C3E	Ekraz (enriched oxygen ranges)
Feature {D}	Range	
	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)
	D6A	Range 0 to 25% Oxygen ("A" suffix denotes O2 as air ingress)
Feature {E}	Background Gas	
	E1	Nitrogen
	E2	Carbon Dioxide
	** E6	Natural Gas
Feature {F}	Cell temperature	
	F1	Cell temp 50°C
	F3	Cell temp 50°C
	F5	Cell temp 70°C
Feature {L}	SIL rated	
	L0	Standard product
	L1	Meets the requirements of IEC61508 SIL 2
Feature {M}	Material Certification	
	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
** Potentially flammable mixtures must be approved by factory		

Ordering Example

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

Thermo-Paramagnetic Oxygen Analyzer (with HMI)

Product Parent Code: XTP601		
Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
Configurable Product		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+...+{Feature F}+{Feature M}		
Feature	Item	Description
Feature {A}	Base Model	
	XTP601	Thermoparamagnetic oxygen analyzer. Supplied with: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), 24V DC powered in an IP66 rated wall mounted enclosure.
Feature {B}	Case & Area Class	
	GP2	General Purpose Analyzer with flame arrestors (1/8" NPTF gas connections)
Feature {C}	Cell O-Ring Material	
	C1	Viton
	C1E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
	C3E	Ekraz (enriched oxygen ranges)
Feature {D}	Range	
	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)	
D6A	Range 0 to 25% Oxygen ("A" suffix denotes O2 as air ingress)	
Feature {E}	Background Gas	
	E1	Nitrogen
	E2	Carbon Dioxide
	** E3	Methane
	** E4	Hydrogen
	** E5	BIOGAS (60%CH4/40%CO2) - unless otherwise stated
	** E6	Natural Gas
Feature {F}	Cell temperature	
	F1	Cell temp 50°C
	F3	Cell temp 60°C
	F5	Cell temp 70°C
Feature {L}	SIL rated	
	L0	Standard product
	L1	Meets the requirements of IEC61508 SIL 2
Feature {M}	Material Certification	
	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
** Potentially flammable mixtures must be approved by factory		

Ordering Example

XTP601-GP2 +C2+D5A+E4+F1+L0+M0	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
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XTP601-EX

Thermo-Paramagnetic Oxygen Analyzer

Product Parent Code: XTP601 Thermo-paramagnetic oxygen analyzer supplied as standard with: Modbus RTU over RS485, 2 x concentration alarms, 2x 4-20mA outputs and 24V DC powered.		
Fixed Configurations		
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/8" NPT Gas Fittings - Materials certs included.		
Feature {A}	XTP601-EX1-C1-STD	Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Viton O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
	XTP601-EX1-C2-STD	Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Silicone O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
	XTP601-EX1-C3-STD	Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Ekraz O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
Supplied with Range: 0-21% in N2 Background, 50°C cell with 1/8" NPT Gas Fittings - Materials certs included.		
Feature {A}	XTP601-EX1-C1-SIL2	IEC61508 SIL2 capable Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Viton O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
	XTP601-EX1-C2-SIL2	IEC61508 SIL2 capable Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Silicone O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.
	XTP601-EX1-C3-SIL2	IEC61508 SIL2 capable Hazardous Area oxygen analyzer: Range: 0...25% O2 with 60°C Cell, Ekraz O-ring, 316 SS sample path, flame arrestors with 1/8" NPTF gas connections, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), IP66 rated, wall mounted and 24V DC powered.

Configurable Product

Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature K}+{Feature W}		
Feature	Item	Description
Feature {A}	Base Model	
	XTP601	Thermoparamagnetic oxygen analyzer. Supplied with: 316 stainless steel sample path, 2 x 4-20mA outputs, MODBUS RTU (RS485), 2 x Concentration alarms, HMI (backlit LCD & 4 buttons), 24V DC powered in an IP66 rated wall mounted enclosure.
Feature {B}	Case & Area Class	
	EX1	Explosion-proof analyzer for use in hazardous areas with flame arrestors (1/8" NPTF gas connections)
Feature {C}	Cell O-Ring Material	
	C1	Viton
	C2E	Viton (enriched oxygen ranges)
	C2	Silicone - Not for use with enriched O2 (ie > 21%)
	C3	Ekraz
Feature {D}	Range	
	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)	
D6A	Range 0 to 25% Oxygen ("A" suffix denotes O2 as air ingress)	
Feature {E}	Background Gas	
	E1	Nitrogen
	E2	Carbon Dioxide
	** E3	Methane
	** E4	Hydrogen
** E5	BIOGAS (60%CH4/40%CO2) - unless otherwise stated	
Feature {F}	Cell temperature	
	F1	Cell temp 50°C
F3	Cell temp 60°C	
Feature {L}	SIL rated	
	L0	Standard product
L1	Meets the requirements of IEC61508 SIL 2	

Feature {M}	Material Certification	
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1
Feature {W}	Material Certification (only add if the unit is destined for Brasil)	
	W1	INMETRO Certification
Feature {X}	Special cleaning procedure	
	X3	Cleaned for O2 service (standard with enriched O2 ranges)
	X9	Product Review Required
The maximum standard range for Oxygen in Hydrogen is 0...5% (cal points up to 4%O2)		
** Potentially flammable mixtures must be approved by factory		

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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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

XTC & XTP SERIES ACCESSORIES AND SPARE PARTS

Product	Item Number	Description
Warranty		
XTC/XTP Series	* XTC501-EW24	Extended warranty 24 months from invoice date
	* XTC501-EW36	Extended warranty 36 months from invoice date
	* XTP501-EW24	Extended warranty 24 months from invoice date
	* XTP501-EW36	Extended warranty 36 months from invoice date
	* XTC601-EW24	Extended warranty 24 months from invoice date
	* XTC601-EW36	Extended warranty 36 months from invoice date
	* XTP601-EW24	Extended warranty 24 months from invoice date
	* XTP601-EW36	Extended warranty 36 months from invoice date
Cables and connectors		
XTC501/XTP501	XTX501-HMI-IC-0.5	0.5m interconnect cable
	XTX501-HMI-IC-01	1m interconnect cable
	XTX501-HMI-IC-02	2m interconnect cable
	XTX501-HMI-RD	Remote Display 501series
	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 interrupt switch
XTC601/XTP601	XTC601-RC	Ribbon cable assembly
	XTP601-RC	Ribbon cable assembly
Gas fitting adaptors		
XTP601/ XTC601 (1/4" NPTF gas fittings)	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
	XTP601-6MM	1/4" NPT to 6mm Swagelok Tube Adaptor
	XTP601-1/4"	1/4" NPT to 1/4" Swagelok Tube Adaptor
	GEN-20114C	1/4" NPT to 1/8" Swagelok Tube Adaptor
XTP601/ XTC601 (1/8" NPTF gas fittings)	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/XTP601	XTC601-GP-HMI	Display assembly for GP model
	XTP601-GP-HMI	Display assembly for GP model
	XTC601-EX-HMI	Display assembly for EX model
	XTP601-EX-HMI	Display assembly for EX model
GUB accessories		
XTC601/XTP601	XTC601-BLANKPLUG	Blanking Plug
	XTC601-M20CONDUIT	M20 Conduit Entry 3/4" NPT (Nickel Plated Brass)
	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)
	XTC601-M20COMPRESS	M20 Cable Gland (Nickel Plated Brass 20S - Compression) (GP1 only)
	XTC601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
	XTP601-M20BARRIER	M20 Cable Gland (Nickel Plated Brass 20S - Barrier)
	XTP601-14198	GUB Lid o-ring
Fuses		
XTC601/XTP601	XTP601-26149	Fuse for main PCB
	XTP601-TFUSE	Thermal Fuse (70°C)
Miscellaneous		
XTC601/XTP601	PTFE-TAPE-02	Unsintered PTFE tape for use with enriched oxygen samples