

### QMA601

Analyzer only (supplied with Desiccant Drier, Back Pressure Regulator & Gauge)

<b>Product Parent Code: QMA601-MON</b>		
<b>QMA601 Analyzer</b>		
<b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature M}</b>		
Feature	Item	Description
Feature {A}	<b>Base Model</b>	
	QMA601-MON	Base unit
Feature {B}	<b>Hazardous Configurations</b>	
	B1	ATEX/IECEX certified system
	B2	cCSAus certified system (24VDC)
Feature {C}	<b>Moisture Generator</b>	
	C1	Low Range (~0.5 ppmv)
	C2	Medium range (~5 ppmv)
	C3	High Range (~50 ppmv)
Feature {D}	<b>Calibration</b>	
	D1	Standard Calibration - 0.1 ppmv to 700ppmv (3 barg input, 2 barg back pressure)
	D2	Non Standard Calibration (Input pressure change)
	D3	Asymmetric Calibration - always use Moisture Generator option C2 Medium range (~5 ppmv)
Feature {E}	<b>Filter (2nd Stage)</b>	
	E0	No Contamination trap required (Inert gas applications only)
	E1	Contamination trap (All other application - natural gas, petrochemical etc.)
Feature {M}	<b>Material Certification</b>	
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1
	M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity

**Ordering Example**

<b>QMA601-MON +B1+C2+D1+E0+M0</b>	<b>Base unit, ATEX/IECEc certified, Medium Range MG, Standard Calibration, No Contamination Trap, No Material certification</b>
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### QMA601

QMA601 EExd Sampling System for Natural Gas or Trace Moisture

<b>Product Parent Code: QMA601-SYS-I/QMA601-SYS-M</b>			
<b>QMA601 Sampling System</b>			
<b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+...+{Feature G}+{Feature M}</b>			
Feature	Item	Description	
Feature {A}	<b>Base Model</b>		
	QMA601-SYS-I	Sampling System - Imperial (1/4") tube and fittings	
	QMA601-SYS-M	Sampling System - Metric (6mm) tube and fittings	
Feature {B}	<b>Hazardous Configurations</b>		
	B1	ATEX/IECEX certified system	
	B2	cCSAus certified system (Analyzer 24VDC, sampling system 110VAC)	
Feature {C}	<b>Sampling System Type</b>		
	C1	Indoor Sampling System 316 stainless steel panel	
	C2	Outdoor Sampling System 304 stainless steel enclosure	
	C3	Outdoor Sampling System 316 stainless steel enclosure	
Feature {D}	<b>Fast Loop Bypass</b>		
	D0	No Fast Loop Bypass required	
	D1	Fast Loop Bypass (Pressure Regulator, Flow Meter + Non Return Valve) plus membrane filter for Natural Gas application	
	D2	Fast Loop Bypass (Pressure Regulator, Flow Meter + Non Return Valve) with particulate/coalescing filter for Trace Moisture applications	
Feature {E}	D3	Fast Loop Bypass (Pressure Regulator, Flow Meter + Non Return Valve) with membrane filter and purge inlet with 3 way valve for H2 Recycling applications - MUST BE USED WITH QMA601-MON-B_-C2-D3-E1-M_	
		<b>Heating (Outdoor systems only)</b>	
		E0	No Heater required
		E1	240VAC Fixed 20°C
		E2	110VAC Fixed 20°C
		E3	240VAC adjustable 0-60°C (ATEX/IECEX)
		E4	110VAC adjustable 0-60°C (ATEX/IECEX)
E5	240VAC Fixed 40°C (not for use with F7)		
E6	110VAC Fixed 40°C (not for use with F7)		
Feature {F}	<b>Outdoor Sampling System Cooling (non-mandatory)</b>		
	F0	No cooling required	
	F4	240VAC (ATEX/IECEX) Enclosure cooling for temperature ≥ 35°C ambient (Adjustable setpoint, instrument air supply required)	
	F5	110VAC (ATEX/IECEX) Enclosure cooling for temperature ≥ 35°C ambient (Adjustable setpoint, instrument air supply required)	
	F6	Ventilated enclosure with louvre panels (IP55 only) Ambient temperature -20C to +35C	
	F7	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)	

<b>Feature {G}</b>	<b>Outdoor Sampling System Trace heating (non-mandatory)</b>	
	G0	No Trace Heating
	G1	240VAC 3m trace heated sample line assembly (1/8" O.D. AISI 316)
	G2	110VAC 3m trace heated sample line assembly (1/8" O.D. AISI 316)
	G3	240VAC 3m trace heated electro polished sample line assembly (1/4" electropolished O.D. AISI 316)
	G4	110VAC 3m trace heated electro polished sample line assembly (1/8" O.D. AISI 316)
	<b>For longer heated sample line lengths - please contact Michell {max 15m}</b>	
<b>Feature {M}</b>	<b>Material Certification</b>	
	M0	No material certification
	M1	Material certificate to BS EN 10204 – type 3.1
	M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity

### Ordering Example

<b>QMA601-MON+B1+C2+D1+E0+M0</b>	<b>Base unit, ATEX/IECEc certified, Medium Range MG, Standard Calibration, No Contamination Trap, No Material certification</b>
<b>QMA601-SYS-I+B1+C2+D1+E1+F0+G1+M1</b>	<b>Sampling System with Imperial fittings, ATEX/IECEx certified, 304 enclosure, Fast Loop Bypass, 240VAC 20C heater, No Cooling, 240VAC 3m trace heating, Material certificate to BS EN 10204 – type 3.1</b>

### QMA601 ACCESSORIES AND SPARE PARTS

**NOTE: Standard delivery (if no documentation is ordered) will include user manual (hard copy), drawings and certificate (on CD).**

Order Codes	Product / Description
QMA601-SYS-MF	Michell standard mounting frame
QMA601-SYS-SC	Michell standard mounting frame, floor standing with sun canopy and three sides- 316 box section construction with roof and side panels
<b>Packaging options</b>	
* QMA-MON-PAC	Packing for Analyzer, dryer column and back pressure regulator only (crate for air, sea & road)
* QMA601-SYS-PAC1	Packing for Main Unit with Indoor Sampling System (crate for air, sea & road)
* QMA601-SYS-PAC2	Packing for Main Unit with Outdoor Sampling System (crate for air, sea & road)
* QMA601-SYS-PAC3	Packing for Mounting Frame and accessories only (crate for air, sea & road)
* QMA601-SYS-PAC4	Packing for Heat Trace line up to 15m length (crate for air, sea & road)
* QMA601-SYS-PAC5	Packing for Analyzer with Sun Canopy, with roof and 3 Sides (crate for air, sea & road)
<b>For systems needing &gt; 3m trace heated sample line (max. 15m) - contact Michell Instruments</b>	
<b>FAT/Documentation</b>	
Standard documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex certificates, Drawing Set, Calibration Certificates and Pressure test certificates.	
** QMA601-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** QMA601-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	FAT 8 hour stability test
** GEN-FAT-ST12	FAT 12 hour stability test
** GEN-FAT-ST24	FAT 24 hour stability test
* SP-MC	Material Certificates for spare parts
* QMA601-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* QMA601-DOC-E	Electronic documentation package (per individual system (to Michell Standard SDR list))
* QMA601-DOC-ADH	Duplicate of DOC package (each hard copy)
* QMA601-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* QMA601-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* QMA601-DOC-CVDR	Documentation package for customer specific VDR
* QMA601-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* QMA601-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* QMA601-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* QMA601-DRG	Drawings for approval before build
<b>Service Spares</b>	
QMA-SOA	QMA601 Sample block/oven assembly (calibrated) - Must be ordered with suitable Moisture Generator QMA-SMG-0.5P/5P or 50P
QMA601-SHMI	QMA601 Display assembly
QMA601-SDA	QMA601 Dryer assembly
QMA601-SCT	QMA601 Contamination trap assembly
QMA-SMG-0.5P	Replacement Low Range (~0.5ppmv) Moisture Generator
QMA-SMG-5P	Replacement Medium Range (~5ppmv) Moisture Generator
QMA-SMG-50P	Replacement High Range (~50ppmv) Moisture Generator
QMA601-SFK	Filter kit for Coalescer and Membrane Separator - each
QMA-THERMAL-FUSE	QMA401/601 Thermal Fuse

### QMA601 SERVICES

Order Codes	Product / Description
QMA601-CAL	In-house calibration of QMA601 (includes replacement moisture generator, desiccant charge and contamination adsorbent (if applicable))

**Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: QMA601\_97490\_V5\_UK\_1119**