

OPTIPEAK TDL600

A tuneable diode laser based moisture in natural gas analyzer, 316 stainless steel cell, approved for hazardous areas.

Product Parent Code: TDL600-SYS		
TDL600 - Main Unit		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature G}+{Feature M}		
Feature	Item	Description
Feature {A}	Base Model	
	TDL600-SYS	EExd certified, automatic online measurement of moisture in variable compositions of natural gas and biomethane. Measurement range 1-1000ppmv, accuracy +/-1ppmv. Mains power, colour capacitive touch screen, Modbus RTU, 3 x 4-20mA and 3 volt free contact outputs. Max. operating pressure 100 barg.
Feature {B}	Type	
	B1	ATEX/IECEx certified system
	B2	North American Certified Class 1 Div 2 (110VAC)
Feature {C}	Range & Climatic Setup	
	C1	Standard Range 1-1000 ppmv (Calibration at 5, 50, 100 ppmv, <2.5% CO2) + Standard setup
	C99	Non Standard Calibration (Gas Composition reqd)
<small>Contract Review</small>		
Feature {D}	Sampling System Type	
	D1	Indoor Sampling System
	D2	Outdoor Sampling System 304 stainless steel enclosure
	D3	Outdoor Sampling System 316 stainless steel enclosure
	D4	Indoor Sampling System with armoured flowmeters (130 barg rated)
	D5	Outdoor Sampling System 304 stainless steel enclosure with armoured flowmeters (130 barg rated)
	D6	Outdoor Sampling System 316 stainless steel enclosure with armoured flowmeters (130 barg rated)
Feature {E}	Heating (Outdoor systems only)	
	E0	No Heater required
	E1	240VAC Fixed 20°C
	E2	110VAC Fixed 20°C
	E3	240VAC Fixed 40°C (Not for use with F4)
	E4	110VAC Fixed 40°C (Not for use with F4)
Feature {F}	Enclosure cooling (Outdoor systems only)	
	F0	No cooling required
	F4	Enclosure cooling (mechanical control) instrument air supply required
Feature {G}	Heat Trace Line (Outdoor system only)	
	G0	No heat trace option
	G1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	G2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
	G3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)
	G4	110VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)
For systems needing > 3m trace heated sample line (max. 15m) - contact Michell Instruments		
Feature {H}	Verification Gas Inlet Connection	
	H0	No validation gas input
	H1	Validation gas input, including 3 way switching valve
Feature {I}	Line Pressure Transmitter	
	I0	No pressure transmitter
	I1	100 barg pressure transmitter (Maximum system pressure will be 100 barg)
	I2	160 barg pressure transmitter
Feature {M}	Material Certification	
	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
* On certain labor intensive services, no discount can be offered. These items are always offered at list price.		

Ordering Example

TDL600-SYS +B1+C1+D2+E1+F0+G0+H0 + M1+TDL600-SYS- MF+TDL600-SYS-PAC1+ TDL600-SYS-PAC3	Base unit with common sampling system, ATEX/IECx certified, Standard Range 1-1000ppmv, Outdoor Sampling System 304 SS, 240VAC Fixed 20°C heater, No cooling, No heat trace, No validation gas inputMaterial Certificates to EN-10204-3.1, plus Mounting Frame. Packaging for main unit and Mounting frame
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OptiPEAK TDL600 ACCESSORIES, SPARE PARTS, DOCUMENTATION & SERVICES

Order Codes	Product / Description
Spares & Accessories	
TDL600-HPR-240	Stand alone heated pressure reduction system 240VAC (300 barg/4350 psig inlet, max 507psig/35barg outlet) - ATEX only
TDL600-HPR-115	Stand alone heated pressure reduction system 115VAC (300 barg/4350 psig inlet, max 507psig/35barg outlet) - ATEX only
TDL600-SYS-MF	Michell standard mounting frame
TDL600-SYS-SC	Michell standard mounting frame, floor standing with sun canopy and three sides- 316 box section construction with roof and side panels
Documentation (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)	
* SP-MC	Material Certificates for spare parts
* TDL600-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* TDL600-DOC-E	Electronic documentation package (per individual system (to Michell Standard SDR list))
* TDL600-DOC-ADH	Duplicate of DOC package (each hard copy)
* TDL600-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* TDL600-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* TDL600-DOC-CVDR	Documentation package for customer specific VDR
* TDL600-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* TDL600-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* TDL600-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* TDL600-DRG	Drawings for approval before build
* TDL600-COM	Commissioning & training on-site (as engineer rates price list)
Packaging	
* TDL600-SYS-PAC1	Packing for Main Unit with Indoor or Outdoor Sampling System (crate for air & road)
* TDL600-SYS-PAC2	Packing for Analyzer with Sun Canopy, GRP Roof and 3 Sides (crate for air & road)
* TDL600-SYS-PAC3	Packing for Mounting Frame and accessories only (crate for air & road)
	For systems needing > 5m trace heated sample line (max. 15m) - contact Michell Instruments
Additional Services	
** TDL600-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** TDL600-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
Consumable items	
TDL600-SFK	Filter kit for Coalescer and Membrane Separator - each
NOTE: Standard delivery (if no documentation is ordered) will include user manual (hard copy), drawings and certificate (on CD).	
* On certain labor intensive services, no discount can be offered. These items are always offered at list price.	
**These are the Michell charges for the FAT only. The cost of any third party inspector attending will be passed on, at cost, in addition to the Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage.	

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: OptiPEAK TDL600_ 97470_V10_UK_0223