PROMET EExd

A complete moisture measurement package for critical process gas applications.

Product Parent Code: PT-MON
Promet EExd - Main Unit
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature M}

Feature	Item	Description	
Feature {A}	Base Model		
	PT-MON	EExd ceramic metal oxide moisture analyser, range -120 to +30C DP, 1 ppbV to 30,000 ppmV. Mains power, capacitive touch screen, integrated pressure reading, flow alarms. Modbus RTU, Two 4-20mA outputs, Two volt free contacts per channel. Min. pressure 30barg, sample flow (0.2 m3/h 3.3 L/min) typical	
Feature {B}	Channel		
	В3	Single moisture measurement channel operation (including flow alarm) 60 barg maximum	
	B5	Single moisture measurement channel operation (including flow alarm) 138 barg maximum	
	В6	Two moisture measurement channel operation (including flow alarm) 138 barg maximum	
Feature {C}	Hazardous Configurations		
	C1	ATEX/IECEx certified system	
	C2	North American certified	
Feature {D}	Channel		
	D1	IGT Bulletin #8 natural gas moisture calculation	
	D2	ISO18453 natural gas moisture calculation	
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 I	abor intensive s	services, no discount can be offered. These items are always offered at list price.	

Product Parent Code: PT-SYS-I/PT-SYS-M Premium Sampling System

Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}+{Feature F}+{Feature F}+{Feature B}+{Feature M}

Feature	Item	Description	
Feature {A}	Base Model		
	PT-SYS-I	Sample system with Base Model Analyser - 1/4" tube with twin ferrule compression fittings. Pressure, flow control & filter options. Gas wetted parts in 316L SS with Viton soft parts. All gas and cable entries are located in the base of the enclosure Bypass Flowrate (0.36 m3/h (6 L/min) nominal	
	PT-SYS-M	Sample system with Base Model Analyser - 6mm tube with twin ferrule compression fittings. Pressure, flow control & filter options. Gas wetted parts in 316L SS with Viton soft parts. All gas and cable entries are located in the base of the enclosure Bypass Flowrate (0.36 m3/h (6 L/min) nominal	
Feature {AB}	Analyzer		
	AB9	Single moisture measurement channel operation IGT - ATEX/IECEx certified 60 barg maximum	
	AB10	Single moisture measurement channel operation ISO - ATEX/IECEx certified 60 barg maximum	
	AB13	Single moisture measurement channel operation IGT - ATEX/IECEx certified 138 barg maximum	
	AB14	Single moisture measurement channel operation ISO - ATEX/IECEx certified 138 barg maximum	
	AB15	Two moisture measurement channel operation IGT - ATEX/IECEx certified 138 barg maximum	
	AB16	Two moisture measurement channel operation ISO - ATEX/IECEx certified 138 barg maximum	
	AB17	Single moisture measurement channel operation IGT - North American certified 60 barg maximum	
	AB18	Single moisture measurement channel operation ISO - North American certified 60 barg maximum	
	AB21	Single moisture measurement channel operation IGT - North American certified 138 barg maximum	
	AB22	Single moisture measurement channel operation ISO - North American certified 138 barg maximum	
	AB23	Two moisture measurement channel operation IGT - North American certified 138 barg maximum	
	AB24	Two moisture measurement channel operation ISO -North American certified 138 barg maximum	
Feature {B}	Hazardous Configurations		
	B1	ATEX/IECEx certified	
	B2	North American Certified (Class 1 Div 2) 110VAC	
Feature {C}	Channel		
	C1	1000 psig/69 barg inlet pressure, 1 channel (Natural gas applications)	
	C2	2000 psig/138 barg inlet pressure, 1 channel (Natural gas applications)	
	C3	1000 psig/69 barg inlet pressure, 2 channel (Natural gas applications)	
	C4	2000 psig/138 barg inlet pressure, 2 channel (Natural gas applications)	
	C5	1000 psig/69 barg inlet pressure, 1 channel (Trace moisture applications)	
	C6	2000 psig/138 barg inlet pressure, 1 channel (Trace moisture applications)	
	C7	1000 psig/69 barg inlet pressure, 2 channel (Trace moisture applications)	
	C8	2000 psig/138 barg inlet pressure, 2 channel (Trace moisture applications)	

Feature {D}	Enclosure				
	D1	Standard indoor sampling system (316SS mounting plate) - 1 channel			
	D2	Standard indoor sampling system (316SS mounting plate) - 2 channel			
	D3	Standard outdoor sampling system (with 304 SS enclosure), IP66/NEMA 4 - 1 channel			
	D4	Standard outdoor sampling system (with 304 SS enclosure), IP66/NEMA 4 - 2 channel			
	D5	Standard outdoor sampling system (with 316 SS enclosure), IP66/NEMA 4 - 1 channel			
	D6	Standard outdoor sampling system (with 316 SS enclosure), IP66/NEMA 4 - 2 channel			
Feature {E}	Heating (Outdoor systems only)				
	E0	No Heater required			
	E1	240VAC Fixed 20°C, 1 channel			
	E2	110VAC Fixed 20°C, 1 channel			
	E3	240VAC Adj 0-60°C (ATEX/IECEx), 1 channel			
	E4	110VAC Adj 0-60°C (ATEX/IECEx), 1 channel			
	E5	240VAC Fixed 40°C (not for use with F6), 1 channel			
	E6	110VAC Fixed 40°C (not for use with F6), 1 channel			
	E7	240VAC Fixed 20°C, 2 channel			
	E8	110VAC Fixed 20°C, 2 channel			
	E9	240VAC adjustable 0-60°C (ATEX/IECEx), 2 channel			
	E10	110VAC adjustable 0-60°C (ATEX/IECEx), 2 channel			
	E11	240VAC Fixed 40°C (not for use with F6), 2 channel			
	E12	110VAC Fixed 40°C (not for use with F6), 2 channel			
Feature {F}	Enclosure Co	oling			
	F0	No cooling required			
	F4	240VAC (ATEX/IECEX) Enclosure cooling required ≥ 45°C ambient (Adjustable setpoint, instrument air supply required)			
	F5	110VAC (ATEX/IECEx) Enclosure cooling required ≥ 45°C ambient (Adjustable setpoint, instrument air supply required)			
	F6	Enclosure cooling (mechanical control) for temperature 45°C max. ambient (instrument air supply required)			
Feature {G}	Heat Trace Li	ne Channel 1			
	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}	Heat Trace Line Channel 2 (Only applicable to 2 channel version)				
	H0	No heat trace option			
	H1	240VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)			
ĺ	H2	240VAC 3m trace heated sample line assembly (1/4" O.D. AISI 316)			
	Н3	110VAC 3m trace heated sample line assembly (6mm O.D. AISI 316)			
	H4	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 (M)	Material Cert	fication			
	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

PI-MON+B3+C1+D2+M0	Promet EExd Analyzer, single moisture measurement channel operation (including flow alarm) 60 barg maximum, ATEX certified, ISO, no material certificates
PT-SYS-M	Promet EExd Analyzer, metric tubing, two moisture measurement channel operation ISO, ATEX, 1000 PSI Natural
+AB4+B1+C3+D6+E1+F0+	Gas application, Outdoor 316SS enclosure, 20C Fixed heating, no cooling, 240VAC heat trace 3m Channel 1,
G1+H1+M0	240VAC heat trace 3m Channel 2, no material certificates

* On certain labor intensive services, no discount can be offered. These items are always offered at list price.

PROMET EExd ACCESSORIES, SPARE PARTS, DOCUMENTATION & SERVICES

Order Codes	Product / Description
Spares & Accessories	
PT-HPR-240	Stand alone heated pressure reduction system 240VAC (300 barg/4350 psig inlet, max 507psig/35barg outlet) - ATEX only
PT-HPR-115	Stand alone heated pressure reduction system 115VAC (300 barg/4350 psig inlet, max 507psig/35barg outlet) - ATEX only
PT-SYS-SC	Michell standard mounting frame, floor standing with sun canopy and three sides- 316 box section construction with roof and side panels
PTS-WDC	Water dew-point sensor assembly (with pressure transmitter)
PTS-SX-WDC	As above but service calibration exchange replacement
	rd documentation package comprises User Manuals (one printed per analyzer system) plus CD ROM containing Ex t, Calibration Certificates and Pressure test certificates)
* SP-MC	Material Certificates for spare parts
* PT-DOC	Documentation package (per individual system (to Michell Standard SDR list))
* PT-DOC-E	Electronic documentation package (per individual system (to Michell Standard SDR list))
* PT-DOC-ADH	Duplicate of DOC package (each hard copy)
* PT-DOC-ADS	Duplicate of DOC package (each soft copy (CDROM))
* PT-DOC-ADE	Duplicate of DOC-E package (on CDROM)
* PT-DOC-CVDR	Documentation package for customer specific VDR
* PT-DOC-CP	Document package on customer headed paper (per individual system (to Michell Standard SDR list))
* PT-DOC-CP-ADH	Duplicate of DOC package on customer headed paper (each hard copy)
* PT-DOC-CP-ADS	Duplicate of DOC package on customer headed paper (each soft copy (CDROM))
* PT-DRG	Drawings for approval before build
Additional Services	
* PT-COM	Commissioning & training on-site (as engineer rates price list)
** PT-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** PT-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
Packaging	
* PT-MON-PAC	Packing for Main Unit only (crate for air and road)
* PT-SYS-PAC1	Packing for Main Unit with 1 or 2 channel Sampling System (crate for air & road)
Consumable items - C1	and C4 sampling systems only:
PT-SFK	Filter kit for Coalescer and Membrane Separator - each
PTS-GAC	Glycol adsorption cartridges - pack of 10
Consumable items - C5	and C8 sampling systems only:
PTS-PFT	Particulate filter element - each
	sive services, no discount can be offered. These items are always offered at list price.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: Promet EExd_97265_V9_UK_0223