

## PROMET I.S./LIQUIDEW I.S./Minox-i MULTI-CHANNEL UNIT

Multi-channel Process Moisture Analyzer with any combination of Promet I.S., Liquidew I.S. and/or Minox-i sensors

Product Parent Code: MCU-ADV Promet I.S./Liquidew I.S./Minox-i Multi-Channel Unit & Sensors (combination of up to 4 channels. Each channel has independent measurement electronics, sensors & sampling block)		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}		
Feature	Item	Description
Feature {A}	<b>Base Model</b>	
	MCU-ADV-1	19" Rack mountable 3RU, safe area, Multi-Channel Control Unit for Promet/Liquidew I.S. or O2 sensors, 85 to 265 V AC. Integrated IS barriers, 2.8" Color display per channel of moisture content/dew point or O2 & pressure, 4 user settable alarms, 3 x 4-20mA outputs per channel and RS485 Modbus RTU.
	MCU-ADV-2	19" Rack mountable 3RU, safe area, Multi-Channel Control Unit for Promet/Liquidew I.S. or O2 sensors, 18 to 28 V DC. Integrated IS barriers, 2.8" Color display per channel of moisture content/dew point or O2 & pressure, 4 user settable alarms, 3 x 4-20mA outputs per channel and RS485 Modbus RTU
Feature {B}	<b>Configuration Channel 1</b>	
	B1	Gas measurement (Promet I.S.)
	*** B2	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified
	*** B3	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified
	*** B4	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified
	*** B5	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified
	B6	Liquid measurement (Liquidew I.S.) ATEX/IECEX certified
	B7	Liquid measurement (Liquidew I.S.) North American certified
	B8	Oxygen Monitor for use with Minox-i (Minox-i % and ppmv range sensors can be selected direct from the Oxygen price list; monitor ranged to suit option ordered).
Feature {C}	<b>Configuration Channel 2</b>	
	C0	Blank channel for future expansion (with front cover, connectors and internal wiring loom)
	C1	Gas measurement (Promet I.S.)
	*** C2	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified
	*** C3	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified
	*** C4	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified
	*** C5	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified
	C6	Liquid measurement (Liquidew I.S.) ATEX/IECEX certified
	C7	Liquid measurement (Liquidew I.S.) North American certified
C8	Oxygen Monitor for use with Minox-i (Minox-i % and ppmv range sensors can be selected direct from the Oxygen price list; monitor ranged to suit option ordered).	

## Process Analyzers

<b>Feature {D}</b>	<b>Configuration Channel 3</b>	
	D0	Blank channel for future expansion (with front cover, connectors and internal wiring loom)
	D1	Gas measurement (Promet I.S.)
	*** D2	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified
	*** D3	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified
	*** D4	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified
	*** D5	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified
	D6	Liquid measurement (Liquidew I.S.) ATEX/IECEX certified
	D7	Liquid measurement (Liquidew I.S.) North American certified
D8	Oxygen Monitor for use with Minox-i (Minox-i % and ppmv range sensors can be selected direct from the Oxygen price list; monitor ranged to suit option ordered).	
<b>Feature {E}</b>	<b>Configuration Channel 4</b>	
	E0	Blank channel for future expansion (with front cover, connectors and internal wiring loom)
	E1	Gas measurement (Promet I.S.)
	*** E2	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified
	*** E3	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified
	*** E4	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified
	*** E5	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified
	E6	Liquid measurement (Liquidew I.S.) ATEX/IECEX certified
	E7	Liquid measurement (Liquidew I.S.) North American certified
E8	Oxygen Monitor for use with Minox-i (Minox-i % and ppmv range sensors can be selected direct from the Oxygen price list; monitor ranged to suit option ordered).	
<b>Feature {M}</b>	<b>Material Certification</b>	
	M0	No material certification
	* M1	Material certificate to BS EN 10204 – type 3.1 (per channel)
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity (Promet IS Only) (per channel)
<b>* On certain labor intensive services, no discount can be offered. These items are always offered at list price.</b>		
<b>*** For other range please consult Michell</b>		

### Ordering Example

<b>MCU-ADV-1+B1+C1+D8+E0+M1</b>	<b>Multi-channel Process Moisture Analyzer, AC version, ATEX/IECEX certified, 2 x Gas measurement (Promet I.S.) channels, 1 x O2 measurement channel, material certificates</b>
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## Process Analyzers

Product Parent Code: MCU-ADV-AMC		
Promet I.S./Liquidew I.S./Minox-i Additional Measurement Channels for Multi-Channel Unit (Each channel has independent measurement electronics, sensors & sampling block)		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature M}		
Feature	Item	Description
Feature {A}	<b>Base Model</b>	
	MCU-ADV-AMC	Additional Measurement Channel Kit
Feature {B}	<b>Type</b>	
	B1	For MCU-1 85 to 265 V AC
	B2	For MCU-2 10 to 72 V DC
Feature {C}	<b>Configuration</b>	
	C1	Gas measurement (Promet I.S.)
	*** C2	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified
	*** C3	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified
	*** C4	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified
	*** C5	Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified
	C6	Liquid measurement (Liquidew I.S.) ATEX/IECEX certified
	C7	Liquid measurement (Liquidew I.S.) North American certified
	C8	Oxygen Monitor for use with Minox-i (Minox-i % and ppmv range sensors can be selected direct from the Oxygen price list; monitor ranged to suit option ordered).
Feature {M}	<b>Material Certification</b>	
	M0	No material certification
	* M1	Material certificate to BS EN 10204 – type 3.1 (per channel)
	* M2	Material certificate to BS EN 10204 – type 3.1 + NACE MR0175 Conformity (Promet IS Only) (per channel)
<b>* On certain labor intensive services, no discount can be offered. These items are always offered at list price.</b>		
<b>*** For other range please consult Michell</b>		

### Ordering Example

<b>MCU-ADV-AMC+B1+C2+M1</b>	<b>MCU Additional Measurement Channel, MCU-1 AC version, ATEX/IECEX certified, Gas measurement (Promet I.S.), material certificates</b>
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## PROMET I.S. AND LIQUIDEW I.S. MULTI-CHANNEL UNIT SERVICES

Order Codes	Product / Description
<b>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)</b>	
* SP-MC	Material Certificates for spare parts
<b>Additional Services</b>	
** MCU-FAT1	One day FAT pre-delivery inspection / or first day of inspection
** MCU-FAT2	Each consecutive day of FAT pre-delivery inspection
** GEN-FAT-ST8	8 hour unwitnessed stability test
** GEN-FAT-ST12	12 hour unwitnessed stability test
** GEN-FAT-ST24	24 hour unwitnessed stability test
<b>* On certain labor intensive services, no discount can be offered. These items are always offered at list price.</b>	
<b>**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.</b>	

## PROMET I.S. ACCESSORIES & SPARE PARTS

Order Codes	Product / Description
PTI-DP	Spare Easidew PRO I.S. Transmitter (with sintered guard)
PTI-PRS-1	Spare I.S. pressure transmitter for P1 option (range 0-1000 psig)
PTI-PRS-2	Spare I.S. pressure transmitter for P2 option (range 0-2000 psig)
GI-PF-01	KFD0-CS-EX1.50P galvanic isolator (Pepperl & Fuchs)
GI-PF-04	Dual channel galvanic isolator (for Promet I.S. with Pressure Compensation/Liquidew I.S)
PTI-ADV-MON-1	Spare monitor for Promet IS 85 to 265 V AC version
PTI-ADV-MON-2	Spare monitor for Promet IS 10 to 72 V DC version

## LIQUIDEW I.S. ACCESSORIES & SPARE PARTS

Order Codes	Product / Description
LDI-X	Service exchange. Reconditioned Easidew PRO I.S. Transmitter supplied with traceable cal. certificate - old sensor to be returned to Michell with 21 days
LDI-DP	Spare Easidew PRO I.S. Transmitter (with sintered guard)
LDI-MON-ADV-1	Spare monitor for Liquidew IS 85 to 265 V AC version
LDI-MON-ADV-2	Spare monitor for Liquidew IS 10 to 72 V DC version
LDI-TEM	Spare I.S. temperature transmitter -20 to +70°C (-4 to +158°F)

**Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Issue No: MCU\_97264\_V6\_UK\_0724**