

Multi-Channel Process Monitor (MCPM - 4 channel)

4 channel Process Monitor with any combination of Promet I.S., Liquidew I.S. and/or Minox-i sensors

| Product Parent Code: MCPM4 | | |
|---|--------------------------------|--|
| MCPM & Promet I.S./Liquidew I.S./Minox-i Sensors (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} | Base Model | |
| | MCPM4-1 | 19" Rack mount 3RU, safe area, MCPM for Promet/Liquidew I.S. or O2 sensors, 85-265VAC. Integrated IS barriers, 7" Color display with moisture content/dew point or O2 & pressure. 2 process, 1 system alarms, 3 x 4-20mA outputs per channel, RS485/Modbus TCP |
| | MCPM4-2 | 19" Rack mount 3RU, safe area, MCPM for Promet/Liquidew I.S. or O2 sensors, 18-28 VDC. Integrated IS barriers, 7" Color display with moisture content/dew point or O2 & pressure. 2 process, 1 system alarms, 3 x 4-20mA outputs per channel, RS485/Modbus TCP |
| Feature {B} | Configuration Channel 1 | |
| | 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} | Configuration Channel 2 | |
| | 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 {D} | Configuration Channel 3 | |
| | 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). |

| Feature {E} | Configuration Channel 4 | |
|--|-------------------------|--|
| | 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). |
| Feature {M} | Material Certification | |
| | 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) |
| * On certain labor intensive services, no discount can be offered. These items are always offered at list price. | | |
| *** For other range please consult Michell | | |

Ordering Example

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|------------------------------------|---|
| MCPM4-1 +B1+C1+D8+E6+M1 | Multi-channel Process Moisture Analyzer, AC version, ATEX/IECEX certified, 2 x Gas measurement (Promet I.S.) channels, 1 x O2 measurement channel, 1 x Liquid measurement (Liquidew I.S.), material certificates |
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Multi-Channel Process Monitor Services

| Order Codes | Product / Description |
|---|--|
| 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 |
| Additional Services | |
| ** MCPM4-FAT1 | One day FAT pre-delivery inspection / or first day of inspection |
| ** MCPM4-FAT2 | Each consecutive day of FAT pre-delivery inspection |
| ** GEN-FAT-ST8 | 8 hour unwitnessed stability test |
| ** GEN-FAT-ST24 | 24 hour unwitnessed stability test |
| * 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 t charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage. | |

Multi-Channel Process Monitor (MCPM - 5 or 6 channel)

5 or 6 channel Process Monitor with any combination of Promet I.S., Liquidew I.S. and/or Minox-i sensors

| Product Parent Code: MCPM6 | | |
|---|--------------------------------|--|
| MCPM & Promet I.S./Liquidew I.S./Minox-i Sensors (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} | Base Model | |
| | MCPM6-1 | 19" Rack mount 3RU, safe area, MCPM for Promet/Liquidew I.S. or O2 sensors, 85-265VAC. Integrated IS barriers, 7" Color display with moisture content/dew point or O2 & pressure. 2 process, 1 system alarms, 3 x 4-20mA outputs per channel, RS485/Modbus TCP |
| | MCPM6-2 | 19" Rack mount 3RU, safe area, MCPM for Promet/Liquidew I.S. or O2 sensors, 18-28 VDC. Integrated IS barriers, 7" Color display with moisture content/dew point or O2 & pressure. 2 process, 1 system alarms, 3 x 4-20mA outputs per channel, RS485/Modbus TCP |
| Feature {B} | Configuration Channel 1 | |
| | 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 |
| Feature {C} | Configuration Channel 2 | |
| | 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 |
| Feature {D} | Configuration Channel 3 | |
| | 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 (% and ppmv range sensors can be selected direct from the Oxygen price list.) Chosen sensor order code to be supplied with MCPM order, sensor will be ordered by Michell. |

| | | |
|---|---|---|
| Feature {E} | Configuration Channel 4 | |
| | 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 (% and ppmv range sensors can be selected direct from the Oxygen price list.) Chosen sensor order code to be supplied with MCPM order, sensor will be ordered by Michell. | |
| Feature {F} | Configuration Channel 5 | |
| | F1 | Gas measurement (Promet I.S.) |
| | *** F2 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified |
| | *** F3 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified |
| | *** F4 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified |
| | *** F5 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified |
| | F6 | Liquid measurement (Liquidew I.S.) ATEX/IECEX certified |
| | F7 | Liquid measurement (Liquidew I.S.) North American certified |
| F8 | Oxygen Monitor for use with Minox-i (% and ppmv range sensors can be selected direct from the Oxygen price list.) Chosen sensor order code to be supplied with MCPM order, sensor will be ordered by Michell. | |
| Feature {G} | Configuration Channel 6 | |
| | G1 | Gas measurement (Promet I.S.) |
| | *** G2 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) ATEX/IECEX certified |
| | *** G3 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-1000 psig/0-69 barg}) North American certified |
| | *** G4 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) ATEX/IECEX certified |
| | *** G5 | Gas measurement (Promet I.S.) (with dynamic pressure compensation {pressure transmitter included, range 0-2000 psig/0-138 barg}) North American certified |
| | G6 | Liquid measurement (Liquidew I.S.) ATEX/IECEX certified |
| | G7 | Liquid measurement (Liquidew I.S.) North American certified |
| G8 | Oxygen Monitor for use with Minox-i (% and ppmv range sensors can be selected direct from the Oxygen price list.) Chosen sensor order code to be supplied with MCPM order, sensor will be ordered by Michell. | |
| Feature {M} | Material Certification | |
| | 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) | |
| * On certain labor intensive services, no discount can be offered. These items are always offered at list price. | | |
| *** For other range please consult Michell | | |

Ordering Example

| | |
|--|---|
| MCPM6-1 +B1+C1+D8+E6+F8+G8+M1 | Multi-channel Process Moisture Analyzer, AC version, ATEX/IECEX certified, 2 x Gas measurement (Promet I.S.) channels, 3 x O2 measurement channel, 1 x Liquid measurement (Liquidew I.S.), material certificates |
| O2 sensor example | ppm Echem sensor for use with gases containing Hydrocarbons and CO2 Sensor OC-69. UKEX / ATEX / IECEX certified, flow through. |

Multi-Channel Process Monitor Services

| Order Codes | Product / Description |
|---|--|
| 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 |
| Additional Services | |
| ** MCPM6-FAT1 | One day FAT pre-delivery inspection / or first day of inspection |
| ** MCPM6-FAT2 | Each consecutive day of FAT pre-delivery inspection |
| ** GEN-FAT-ST8 | 8 hour unwitnessed stability test |
| ** GEN-FAT-ST24 | 24 hour unwitnessed stability test |
| * 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 Michell charges. Therefore, please ensure that the costs of any third party inspector(s) are added at the quotation stage. | |