

## HMP243 Dewpoint and Temperature Transmitter

| Dewpoint and temperature transmitter            |  |   |  |  |  |  |  |  |  |  |  |                        |  | HMP243                          |  |                                 |  |             |  |  |  |  |  |  |  | PRICE |  |  |  |  |
|---|--|---|--|--|--|--|--|--|--|--|--|------------------------|--|---------------------------------|--|---------------------------------|--|-------------|--|--|--|--|--|--|--|-------|--|--|--|--|
| Transmitter type                                |  | RH+T+Td+dT<br>RH+T+Td+a+Tw+x+dT   |  |  |  |  |  |  |  |  |  | B<br>D                 |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Display   |  | no display<br>display on transmitter cover  |  |  |  |  |  |  |  |  |  | 1<br>2                 |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Dewpoint probe cable length                     |  | 2 m cable<br>5 m cable<br>10 m cable  |  |  |  |  |  |  |  |  |  | A<br>B<br>C            |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Temperature probe cable length                  |  | 2 m cable<br>5 m cable<br>10 m cable  |  |  |  |  |  |  |  |  |  | 2<br>3<br>4            |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Serial interface                                |  | RS 232C<br>RS 485/RS 422<br>digital current loop  |  |  |  |  |  |  |  |  |  | A<br>B<br>C            |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Sensor protection                               |  | sintered stainless steel filter (16452)<br>PPS plastic grid & stainless steel netting (16720HM)   |  |  |  |  |  |  |  |  |  | 1<br>2                 |  |                                 |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Analog output signals (Ch1 and Ch2)             |  | 4...20 mA<br>0...20 mA<br>0...1 V<br>0...5 V<br>0...10 V  |  |  |  |  |  |  |  |  |  | channel 1<br>channel 2 |  | A<br>B<br>C<br>D<br>E           |  | A<br>B<br>C<br>D<br>E           |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Parameters for the analog outputs (Ch1 and Ch2) |  | RH (0...100 %RH)<br>T (range: see below)<br>Td (-40...+100 °C)<br>a (0...600 g/m3)<br>Tw (0...100 °C)<br>x (0...500 g/kg d.a.)<br>dT (-10...+50 °C)   |  |  |  |  |  |  |  |  |  | channel 1<br>channel 2 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7 |  | 1<br>2<br>3<br>4<br>5<br>6<br>7 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Analog output range for temperature             |  | -40...+60 °C (-40...+140 °F)<br>-40...+120 °C (-40...+248 °F)<br>-40...+180 °C (-40...+356 °F)<br>0...+120 °C (+32...+248 °F)<br>0...+180 °C (+32...+356 °F)<br>0...+100 °C (+32...+212 °F) |  |  |  |  |  |  |  |  |  |                        |  |                                 |  | A<br>B<br>C<br>D<br>E<br>F      |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Units (local display and serial interface)      |  | metric<br>non-metric  |  |  |  |  |  |  |  |  |  |                        |  |                                 |  | 1<br>2                          |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Installation kit for duct mounting              |  | no<br>yes: 1 kit (for one sensor head)<br>yes: 2 kits (for both sensor heads)   |  |  |  |  |  |  |  |  |  |                        |  |                                 |  | A<br>B<br>C                     |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Re-gaining option                               |  | no<br>yes   |  |  |  |  |  |  |  |  |  |                        |  |                                 |  | 1<br>2                          |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
| Manual language                                 |  | No manual<br>English<br>German  |  |  |  |  |  |  |  |  |  |                        |  |                                 |  |                                 |  | A<br>B<br>C |  |  |  |  |  |  |  |       |  |  |  |  |
|   |  |   |  |  |  |  |  |  |  |  |  |                        |  | TOTAL                           |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
|   |  |   |  |  |  |  |  |  |  |  |  |                        |  | QTY                             |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |
|   |  |   |  |  |  |  |  |  |  |  |  |                        |  | TOTAL VALUE                     |  |                                 |  |             |  |  |  |  |  |  |  |       |  |  |  |  |

Selections in bold are included in the prices of the basic versions.

Selections in italic are available at an extra price.

Example of order code with typical settings:

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HMP243 | B | 1 | A | 2 | A | 2 | A | A | 1 | 2 | A | 1 | A | 1 | B |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer:

| Dewpoint transmitter                                  |   |  | HMP243   |                                  |  | 1      |  |  |                      |                      |  | A                    |  |  |        |                                  | PRICE |
|---|---|--|--|----------------------------------|--|--------|--|--|----------------------|----------------------|--|----------------------|--|--|--------|----------------------------------|-------|
| Transmitter type                                      | <b>Td</b><br><i>Td + x</i>  | <b>F</b><br><b>G</b>                                 |  |                                  |  |        |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| Display   | <b>no display</b><br><i>display on transmitter cover</i>  |  | 1<br>2   |                                  |  |        |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| Dewpoint probe<br>cable length                        | <b>2 m cable</b><br><i>5 m cable</i><br><i>10 m cable</i>   |  |  | <b>A</b><br><b>B</b><br><b>C</b> |  | 1      |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| Serial interface                                      | <b>RS 232C</b><br><i>RS 485/RS 422</i><br><i>digital current loop</i>   |  |  |                                  |  |        | <b>A</b><br><b>B</b><br><b>C</b>                         |  |                      |                      |  |                      |  |  |        |                                  |       |
| Sensor protection                                     | <b>sintered stainless steel filter (16452)</b><br><b>PPS plastic grid &amp; stainless steel netting (16720HM)</b> |  |  |                                  |  | 1<br>2 |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| Analogue output<br>signals<br>(Ch1 and Ch2)           | <b>4...20 mA</b><br><b>0...20 mA</b><br><b>0...1 V</b><br><b>0...5 V</b><br><b>0...10 V</b>                       |  |  |                                  |  |        | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b> | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b> |                      |                      |  |                      |  |  |        |                                  |       |
| Parameters for the<br>analog outputs<br>(Ch1 and Ch2) | <b>Td</b><br><b>x</b>   | <b>(-40...+100 °C)</b><br><b>(0...500 g/kg d.a.)</b> | <b>(-40...+212 °F)</b><br><b>(0...3500 gr/lb d.a.)</b> |                                  |  |        |  |  | <b>3</b><br><b>6</b> | <b>3</b><br><b>6</b> |  |                      |  |  |        |                                  |       |
|   |   |  |  |                                  |  |        | <b>channel 1</b><br><b>channel 2</b>                     |  |                      |                      |  | <b>A</b>             |  |  |        |                                  |       |
| Units (local display<br>and serial interface)         | <b>metric</b><br><b>non-metric</b>  |  |  |                                  |  |        |  |  |                      |                      |  | 1<br>2               |  |  |        |                                  |       |
| Installation kit for<br>duct mounting                 | <b>no</b><br><b>yes</b>   |  |  |                                  |  |        |  |  |                      |                      |  | <b>A</b><br><b>B</b> |  |  |        |                                  |       |
| Re-gaining option                                     | <b>no</b><br><b>yes</b>   |  |  |                                  |  |        |  |  |                      |                      |  |                      |  |  | 1<br>2 |                                  |       |
| Manual language                                       | <b>No manual</b><br><b>English</b><br><b>German</b>   |  |  |                                  |  |        |  |  |                      |                      |  |                      |  |  |        | <b>A</b><br><b>B</b><br><b>C</b> |       |
| TOTAL   |   |  |  |                                  |  |        |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| QTY   |   |  |  |                                  |  |        |  |  |                      |                      |  |                      |  |  |        |                                  |       |
| TOTAL VALUE   |   |  |  |                                  |  |        |  |  |                      |                      |  |                      |  |  |        |                                  |       |

Selections in bold are included in the prices of the basic versions.

Example of order code with typical settings:

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HMP243 | F | 1 | A | 1 | A | 2 | A | A | 3 | 3 | A | 1 | A | 1 | B |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer:

## HMP247 Dewpoint and Temperature Transmitter

| Dewpoint and temperature transmitter HMP247          |  |  |  |  |  |  |  |  |  |  |  |  |  | PRICE |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| Transmitter type                                     | <b>RH+T+Td+dT</b><br><i>RH+T+Td+a+Tw+x+dT</i>  | <b>B</b><br><i>D</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Display  | <b>no display</b><br><i>display on transmitter cover</i>   | <b>1</b><br><i>2</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Dewpoint probe cable length                          | <b>2 m cable</b><br><i>5 m cable</i><br><i>10 m cable</i>  | <b>A</b><br><i>B</i><br><i>C</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Temperature probe cable length                       | <b>2 m cable</b><br><i>5 m cable</i><br><i>10 m cable</i>  | <b>2</b><br><i>3</i><br><i>4</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Serial interface                                     | <b>RS 232C</b><br><i>RS 485/RS 422</i><br><i>digital current loop</i>  | <b>A</b><br><i>B</i><br><i>C</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Sensor protection                                    | <b>sintered stainless steel filter (16452)</b><br><b>PPS plastic grid &amp; stainless steel netting (16720HM)</b>  | <b>1</b><br><i>2</i>   |  |  |  |  |  |  |  |  |  |  |  |       |
| Analogue output signals (Ch1 and Ch2) and connectors | <b>4...20 mA</b> no connector<br><b>0...20 mA</b> no connector<br><b>0...1 V</b> no connector<br><b>0...5 V</b> no connector<br><b>0...10 V</b> no connector   | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b>                         | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b>                         |  |  |  |  |  |  |  |  |  |  |       |
| NOTE:  | <i>4...20 mA with shared connector for output and power supply</i>   | <i>F</i>   | <i>F</i>   |  |  |  |  |  |  |  |  |  |  |       |
| Choose connector for both channels                   | <i>0...20 mA with shared connector for output and power supply</i><br><i>0...1 V with shared connector for output and power supply</i><br><i>0...5 V with shared connector for output and power supply</i><br><i>0...10 V with shared connector for output and power supply</i>            | <i>G</i><br><i>H</i><br><i>J</i><br><i>K</i>                                     | <i>G</i><br><i>H</i><br><i>J</i><br><i>K</i>                                     |  |  |  |  |  |  |  |  |  |  |       |
|  | channel 1<br>channel 2   |  |  |  |  |  |  |  |  |  |  |  |  |       |
| Parameters for the analogue outputs (Ch1 and Ch2)    | <b>RH (0...100 %RH)</b><br><b>T (range: see below)</b><br><b>Td (-40...+100 °C) (-40...+212 °F)</b><br><b>a (0...600 g/m3) (0...262 gr/ft3)</b><br><b>Tw (0...100 °C) (+32...+212 °F)</b><br><b>x (0...500 g/kg d.a.) (0...3500 gr/lb d.a.)</b><br><b>dT (-10...+50 °C) (-18...+90 °F)</b> | <b>1</b><br><b>2</b><br><b>3</b><br><b>4</b><br><b>5</b><br><b>6</b><br><b>7</b> | <b>1</b><br><b>2</b><br><b>3</b><br><b>4</b><br><b>5</b><br><b>6</b><br><b>7</b> |  |  |  |  |  |  |  |  |  |  |       |
|  | channel 1<br>channel 2   |  |  |  |  |  |  |  |  |  |  |  |  |       |
| Analogue output range for temperature                | <b>-40...+60 °C (-40...+140 °F)</b><br><b>-40...+120 °C (-40...+248 °F)</b><br><b>-40...+180 °C (-40...+356 °F)</b><br><b>0...+120 °C (+32...+248 °F)</b><br><b>0...+180 °C (+32...+356 °F)</b><br><b>0...+100 °C (+32...+212 °F)</b>  | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b><br><b>F</b>             | <b>A</b><br><b>B</b><br><b>C</b><br><b>D</b><br><b>E</b><br><b>F</b>             |  |  |  |  |  |  |  |  |  |  |       |
| Units (local display and serial interface)           | <b>metric</b><br><b>non-metric</b>   | <b>1</b><br><b>2</b>   | <b>1</b><br><b>2</b>   |  |  |  |  |  |  |  |  |  |  |       |
| Installation kit for duct mounting                   | <b>no</b><br><i>yes: 1 kit (for one sensor head)</i><br><i>yes: 2 kits (for both sensor heads)</i>   | <b>A</b><br><i>B</i><br><i>C</i>   | <b>A</b><br><i>B</i><br><i>C</i>   |  |  |  |  |  |  |  |  |  |  |       |
| Re-gaining option                                    | <b>no</b><br><b>yes</b>  | <b>1</b><br><b>2</b>   | <b>1</b><br><b>2</b>   |  |  |  |  |  |  |  |  |  |  |       |
| Manual language                                      | <b>No manual</b><br><b>English</b><br><b>German</b>  | <b>A</b><br><b>B</b><br><b>C</b>   | <b>A</b><br><b>B</b><br><b>C</b>   |  |  |  |  |  |  |  |  |  |  |       |
| TOTAL  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |
| QTY  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |
| TOTAL VALUE  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |

Selections in bold are included in the prices of the basic versions.

Selections in italic are available at an extra price.

Example of order code with typical settings:

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HMP247 | B | 1 | A | 2 | A | 1 | A | A | 1 | 2 | B | 1 | A | 1 | B |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer:

| Dewpoint transmitter  |  |                      |        | HMP247                           |  | 1      |  |  |  |                      |                      |  | A        |  |                      |        |                                  | PRICE |
|---|--|----------------------|--------|----------------------------------|--|--------|--|--|--|----------------------|----------------------|--|----------|--|----------------------|--------|----------------------------------|-------|
| Transmitter type  | <b>Td</b><br><i>Td + x</i>   | <b>F</b><br><i>G</i> |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| Display   | <b>no display</b><br><i>display on transmitter cover</i>   |                      | 1<br>2 |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| Dewpoint probe<br>cable length                              | <b>2 m cable</b><br><i>5 m cable</i><br><i>10 m cable</i>  |                      |        | <b>A</b><br><i>B</i><br><i>C</i> |  | 1      |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| Serial interface  | <b>RS 232C</b><br><i>RS 485/RS 422</i><br><i>current loop</i>  |                      |        |                                  |  |        |  | <b>A</b><br><i>B</i><br><i>C</i>   |  |                      |                      |  |          |  |                      |        |                                  |       |
| Sensor protection   | <b>sintered stainless steel filter (16452)</b><br><b>PPS plastic grid &amp; stainless steel netting (16720HM)</b>  |                      |        |                                  |  | 1<br>2 |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| Analog output<br>signals<br>(Ch1 and Ch2)<br>and connectors | <b>4...20 mA</b> <i>no connector</i><br><b>0...20 mA</b> <i>no connector</i><br><b>0...1 V</b> <i>no connector</i><br><b>0...5 V</b> <i>no connector</i><br><b>0...10 V</b> <i>no connector</i>  |                      |        |                                  |  |        |  | <b>A</b><br><i>B</i><br><i>C</i><br><i>D</i><br><i>E</i><br><i>F</i><br><i>G</i><br><i>H</i><br><i>J</i><br><i>K</i> | <b>A</b><br><i>B</i><br><i>C</i><br><i>D</i><br><i>E</i><br><i>F</i><br><i>G</i><br><i>H</i><br><i>J</i><br><i>K</i> |                      |                      |  |          |  |                      |        |                                  |       |
| NOTE:<br>Choose connector<br>for both channels              | <i>4...20 mA</i> <i>with shared connector for output and power supply</i><br><i>0...20 mA</i> <i>with shared connector for output and power supply</i><br><i>0...1 V</i> <i>with shared connector for output and power supply</i><br><i>0...5 V</i> <i>with shared connector for output and power supply</i><br><i>0...10 V</i> <i>with shared connector for output and power supply</i> |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
|   |  |                      |        |                                  |  |        |  | channel 1<br>channel 2   |  |                      |                      |  |          |  |                      |        |                                  |       |
| Parameters for the<br>analog outputs<br>(Ch1 and Ch2)       | <b>Td</b> <b>(-40...+100 °C)</b> <b>(-40...+212 °F)</b><br><b>x</b> <b>(0...500 g/kg d.a.)</b> <b>(0...3500 gr/lb d.a.)</b>  |                      |        |                                  |  |        |  |  |  | <b>3</b><br><b>6</b> | <b>3</b><br><b>6</b> |  |          |  |                      |        |                                  |       |
|   |  |                      |        |                                  |  |        |  | channel 1<br>channel 2   |  |                      |                      |  | <b>A</b> |  |                      |        |                                  |       |
| Units (local display<br>and serial interface)               | <b>metric</b><br><b>non-metric</b>   |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  | 1<br>2               |        |                                  |       |
| Installation kit for<br>duct mounting                       | <b>no</b><br><i>yes</i>  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  | <b>A</b><br><i>B</i> |        |                                  |       |
| Re-gaining option   | <b>no</b><br><b>yes</b>  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      | 1<br>2 |                                  |       |
| Manual language   | <b>No manual</b><br><b>English</b><br><b>German</b>  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        | <b>A</b><br><b>B</b><br><b>C</b> |       |
| TOTAL   |  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| QTY   |  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |
| TOTAL VALUE   |  |                      |        |                                  |  |        |  |  |  |                      |                      |  |          |  |                      |        |                                  |       |

Selections in bold are included in the prices of the basic versions.

*Selections in italic are available at an extra price.*

Example of order code with typical settings:

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HMP247 | F | 1 | A | 1 | A | 1 | A | A | 3 | 3 | A | 1 | A | 1 | B |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

End customer:



Legacy Configuration Codes

Valid from 3rd April 2000

## HMP243 Meteorological Installation Kit

| Meteorological installation kit                            | HMP243MIK |  |  |  | PRICE |
|--|-----------|--|--|--|-------|
| No Td sensor head beam & no shield                         | 1         |  |  |  |       |
| Td sensor head beam & shield                               | 2         |  |  |  |       |
| No shield for transmitter housing                          | A         |  |  |  |       |
| Shield for transmitter housing                             | B         |  |  |  |       |
| No beam mounting kit                                       | 1         |  |  |  |       |
| Beam mounting kit  | 2         |  |  |  |       |
| No T sensor head beam & no radiation shield                | A         |  |  |  |       |
| T sensor head beam with DTR13 radiation shield             | B         |  |  |  |       |
| T sensor head beam with DTR502 radiation shield            | C         |  |  |  |       |
| T sensor head beam with sensor head support bar for DTR13  | D         |  |  |  |       |
| T sensor head support bar only for DTR13                   | E         |  |  |  |       |
| T sensor head beam with sensor head support bar for DTR502 | F         |  |  |  |       |
| T sensor head support bar only for DTR502                  | G         |  |  |  |       |
| TOTAL  |           |  |  |  |       |
| QTY  |           |  |  |  |       |
| TOTAL VALUE  |           |  |  |  |       |

Example of order code with typical settings:

|           |   |   |   |   |
|-----------|---|---|---|---|
| HMP243MIK | 2 | B | 2 | B |
|-----------|---|---|---|---|

End customer: \_\_\_\_\_