# HMT331 Humidity and Temperature Transmitter

For wall mounting

## Technical Specifications

### 1. Transmitter Type

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT331</td>
<td>8-pole counter connector equipped with screw terminals</td>
<td>212416D</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...5 V</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>T output is desired - Choose option A, if no</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CH1&amp;CH2 are mandatory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>CH3 is optional</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...5 V</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...10 V</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>+ Serial interface RS232 or optional communication module</td>
<td>6</td>
</tr>
</tbody>
</table>

### 2. Power Supply

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10...35 VDC, 24 VAC</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Universal AC-power (100...240 VAC)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Universal AC-power (100...240 VAC) + Universal AC-power (100...240 VAC) + Universal AC-power (100...240 VAC) + Universal AC-power (100...240 VAC) + Universal AC-power (100...240 VAC) + Universal AC-power (100...240 VAC)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>External US AC-adapter (for LAN interface in USA and Canada)</td>
<td>4</td>
</tr>
</tbody>
</table>

### 3. Signal Output

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 4...20 mA</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...20 mA</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...1 V</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...5 V</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...10 V</td>
<td>5</td>
</tr>
</tbody>
</table>

### 4. Analog Output Signals

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...10 V</td>
<td>5</td>
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<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...20 mA</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 4...20 mA</td>
<td>1</td>
</tr>
</tbody>
</table>

### 5. Analog Output Range

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...10 V</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 0...20 mA</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (Ch1&amp;Ch2&amp;Ch3) 4...20 mA</td>
<td>1</td>
</tr>
</tbody>
</table>

### 6. Physical Dimensions

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RS485 serial interface (galvanically isolated)</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>LAN (Ethernet) interface + 2 m cable (RJ45)</td>
<td>4</td>
</tr>
</tbody>
</table>

### 7. Humidity Sensor Type

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General purpose and high chemical concentrations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humidity sensor for hydrogen peroxide environments</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Humidity sensor for high chemical concentrations</td>
<td>2</td>
</tr>
</tbody>
</table>

### 8. Sensor Protection

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PPS plastic grid &amp; stainless steel netting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sintered stainless steel filter</td>
<td>2</td>
</tr>
</tbody>
</table>

### 9. No Probe Installation Kit

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Operating manual</td>
<td>1</td>
</tr>
</tbody>
</table>

### 10. PC Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Service cable for PC, RS232 (D9 female connector)</td>
<td>194462Z</td>
</tr>
<tr>
<td></td>
<td>MICLINK software for Windows® with RS232 service cable</td>
<td>215005</td>
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### 11. Calibration

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ISO9001 compliant factory calibration</td>
<td>1</td>
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</table>

### 12. Additional Maintenance

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No maintenance and repair contract</td>
<td>1</td>
</tr>
</tbody>
</table>

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*Note: Simultaneous installation of LAN and Universal AC-power is possible only with a short cable probe. Selections in italic are available at an extra price. Selections in bold are included in the prices of the basic versions.*
HMT333 Humidity and Temperature Transmitter

For general purpose humidity measurements

Vaisala HUMICAP® Humidity and Temperature Transmitter

1. Cable length
   1.5 m cable, +80°C, PUR cable
   5 m cable, +80°C, PUR cable
   10 m cable, +80°C, PUR cable
   20 m cable, +80°C, PUR cable
   5 m cable, +120°C, FEP cable
   5 m cable, +120°C, FEP cable
   10 m cable, +120°C, FEP cable

2. Power supply
   10...1 V (-4...+140°F)
   0...10...35 VDC, 24 VAC (-40...+176°F)
   External AC adapter (for LAN interface in USA and Canada)
   Not IP65

3. Signal output
   Analog output channel (CH1&CH2&CH3)
     0...20 mA
     0...1 V
     0...5 V
     4...20 mA
     0...10 V
   Analog output channel (CH1&CH2&CH3)
     0...5 V

4. Display
   No display

5. Analog output signals
   For CH1, CH2 and CH3
   0...+100%RH
   (range: see below)
   (0...+500 mV)
   (10...+50°C)
   (0...5 A)
   (0...5000)
   (0...+100°C)
   (0...40°C)
   (0...+100°C)
   (0...40°C)
   (0...+100°C)
   (0...40°C)
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   (0...40°C)
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   (0...40°C)
   (0...+100°C)
   (0...40°C)
   (0...+100°C)
   (0...40°C)
   (0...+100°C)
   (0...40°C)
   (0...+100°C)
HMT334 Humidity and Temperature Transmitter

For process pressure transmitters, please consult the HMT33X data sheet.

1. **Transmitter type**
   - HMT334

2. **Cable length**
   - 2 m cable

3. **Order no.**
   - HUMICAP180R

4. **Service item for calibration**
   - RHCALSTD

5. **Conduit fitting**
   - NPT1/2"

6. **Spare**
   - HUMICAP180R

7. **See separate order form**
   - K

8. **Price**
   - 2

9. **Analog output signals**
   - 3rd Analog output
   - RH (0...100%RH)
   - T (range: see below)

10. **Parameters**
    - RH
    - T
    - Tw: (0...100°C)
    - H: (0...1500 h/kg)
    - ppm (0...5000)
    - ps (0...100 kPa)
    - L: (0...14.5 psi)

11. **Display**
    - No display

12. **External US AC-adapter (for LAN interface in USA and Canada)**
    - Not IP65

13. **No additional temperature probe**

14. **Power supply**
    - 10...35 VDC, 24 VAC

15. **External US AC-adapter (for LAN interface in USA and Canada)**
    - Not IP65

16. **Calibration**
    - BS0601 compliant factory calibration

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

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

---

**Example of order code with typical settings:**

```
HMT330 4 H 0 A 1 0 1 B C A L 1 0 0 A 0 C A E B A A 1
```

---

**Notes:**
- **Note:** The Universal AC power (100...240 VAC) + AUS power cord
- **Note:** The Universal AC power (100...240 VAC) + UK power cord
- **Note:** The Universal AC power (100...240 VAC) + Universal AC-power (100...240 VAC) + UL power cord
- **Note:** The Universal AC power (100...240 VAC) + EUR power cord
- **Note:** The Universal AC power (100...240 VAC) + UK power cord
- **Note:** The Universal AC power (100...240 VAC) + AUS power cord

---

**End customer:**

Restriction: [Redacted]
**HMT335 Humidity and Temperature Transmitter**

**Long probe for high temperature installations**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Transmitter type</strong>&lt;br&gt;HMT335</td>
</tr>
<tr>
<td>2</td>
<td><strong>Cable length</strong>&lt;br&gt;2 m cable</td>
</tr>
<tr>
<td>3</td>
<td><strong>Display</strong>&lt;br&gt;No display</td>
</tr>
<tr>
<td>4</td>
<td><strong>Power supply</strong>&lt;br&gt;10...35 VDC, 24 VAC</td>
</tr>
<tr>
<td>5</td>
<td><strong>Signal output</strong>&lt;br&gt;4...20 mA</td>
</tr>
<tr>
<td>6</td>
<td><strong>Analog output signals</strong>&lt;br&gt;No 3rd analog output</td>
</tr>
<tr>
<td>7</td>
<td><strong>Analog output range</strong>&lt;br&gt;No temperature output</td>
</tr>
<tr>
<td>8</td>
<td><strong>Analog output channel</strong>&lt;br&gt;Channel 1, Channel 2, Optional Channel 3</td>
</tr>
<tr>
<td>9</td>
<td><strong>Output units</strong>&lt;br&gt;Metric</td>
</tr>
<tr>
<td>10</td>
<td><strong>Option for module slot 1</strong>&lt;br&gt;No module</td>
</tr>
<tr>
<td>11</td>
<td><strong>Option for module slot 2</strong>&lt;br&gt;No module</td>
</tr>
<tr>
<td>12</td>
<td><strong>Cable bushings</strong>&lt;br&gt;Cable gland M20 x 1.5</td>
</tr>
<tr>
<td>13</td>
<td><strong>Transmitter installation</strong>&lt;br&gt;Wall mounting plate</td>
</tr>
<tr>
<td>14</td>
<td><strong>Humidity sensor type</strong>&lt;br&gt;Humicap 180R</td>
</tr>
<tr>
<td>15</td>
<td><strong>Sensor protection</strong>&lt;br&gt;PPS plastic grid</td>
</tr>
<tr>
<td>16</td>
<td><strong>Installation kit</strong>&lt;br&gt;No kit</td>
</tr>
<tr>
<td>17</td>
<td><strong>PC Accessories</strong>&lt;br&gt;No</td>
</tr>
<tr>
<td>18</td>
<td><strong>Calibration</strong>&lt;br&gt;ISO 9001 compliant factory calibration</td>
</tr>
<tr>
<td>19</td>
<td><strong>Additional maintenance</strong>&lt;br&gt;No maintenance and repair contract</td>
</tr>
</tbody>
</table>

**Example of order code with typical settings:**

```
HMT335 / HUMICAP180/ (Ch1&Ch2) / 208°F / 4...20mA / RS232 / NON-CAL / ENGLISH / 2M CABLE
```

**Example of order code with optional settings:**

```
HMT335 / HUMICAP180/ (Ch1&Ch2) / 208°F / 4...20mA / RS232 / Optional Calibration / Russian / 5M CABLE
```
### HMT337 Humidity and Temperature Transmitter

<table>
<thead>
<tr>
<th>Transmitter type</th>
<th>HMT337</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable length</strong></td>
<td>2 m cable</td>
</tr>
</tbody>
</table>

| Additional temperature probe | No probe |

| Parameters | No display |

<table>
<thead>
<tr>
<th>Power supply</th>
<th>10...35 VDC, 24 VAC</th>
<th>10...25 VDC, 24 VAC with galvanic isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Universal AC-power (100...240 VAC)</td>
<td>Universal AC-power (100...240 VAC) + PE power cord</td>
</tr>
<tr>
<td></td>
<td>Universal AC-power (100...240 VAC) + PE power cord</td>
<td>Universal AC-power (100...240 VAC) + PE power cord</td>
</tr>
<tr>
<td></td>
<td>Universal AC-power (100...240 VAC) + PE power cord</td>
<td>Universal AC-power (100...240 VAC) + PE power cord</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal output</th>
<th>Analog output channel (CH1, CH2, CH3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Analog output channel (CH1, CH2, CH3)</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (CH1, CH2, CH3)</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (CH1, CH2, CH3)</td>
</tr>
<tr>
<td></td>
<td>Analog output channel (CH1, CH2, CH3)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analog output signals</th>
<th>No 3rd analog output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch1</td>
<td>Optional Ch3</td>
</tr>
<tr>
<td>Ch2</td>
<td>Optional Ch3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analog output range</th>
<th>No temperature output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch1</td>
<td>Optional Ch3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output units</th>
<th>Metric</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Non-metric</td>
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<table>
<thead>
<tr>
<th>Option for module slot 1</th>
<th>No module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay output</td>
<td>GS-45 serial interface (generically isolated)</td>
</tr>
<tr>
<td>USB interface + 2 m cable (RJ4)</td>
<td>Data logger module</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option for module slot 2</th>
<th>No module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay output</td>
<td>3rd Analog output</td>
</tr>
<tr>
<td>Choose also analog output signal for Ch3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable bushings</th>
<th>Cable gland M20 x 1.5 T</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Conduit fitting NPT1/2</td>
</tr>
<tr>
<td>D</td>
<td>Bopas connector with bin cable</td>
</tr>
<tr>
<td>G</td>
<td>Bopas counter connector equipped with screw terminals</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmitter installation</th>
<th>Normal mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
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</table>

<table>
<thead>
<tr>
<th>Humidity sensor type</th>
<th>General purpose and high chemical concentrations with chemical purge function</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMICAP®</td>
<td>HUMICAP®</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Sensor protection</th>
<th>PPS plastic grid &amp; stainless steel netting</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPS plastic grid</td>
<td>Stainless steel grid</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Installation kit</th>
<th>No kit</th>
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<tbody>
<tr>
<td>Duct installation kit</td>
<td></td>
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<table>
<thead>
<tr>
<th>Operating manual language</th>
<th>No manual</th>
</tr>
</thead>
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<thead>
<tr>
<th>PC Accessories</th>
<th>No</th>
</tr>
</thead>
</table>

| Additional maintenance | No maintenance and repair contract |

---

### Example of order code with typical settings:

```
HUMICAP180VC
```

### Example of typical settings:

```
Analog output range:
- CH1: 4...20 mA
- CH2: 4...20 mA
- CH3: 0...10 V

Additional temperature probe:
- No probe

Analog output signals:
- No 3rd analog output
- Optional Ch3

Output units:
- Metric

Option for module slot 1:
- Relay output
- GS-45 serial interface (generically isolated)
- USB interface + 2 m cable (RJ4)
- Data logger module

Option for module slot 2:
- Relay output
- 3rd Analog output
  - Choose also analog output signal for Ch3
  - Data logger module: For possible if the data logger module has already been chosen in Item 12

Cable bushings:
- Cable gland M20 x 1.5
- Conduit fitting NPT1/2
- Bopas connector with bin cable
- Bopas counter connector equipped with screw terminals

Transmitter installation:
- Normal mounting

Humidity sensor type:
- General purpose and high chemical concentrations with chemical purge function

Sensor protection:
- PPS plastic grid & stainless steel netting
- PPS plastic grid
- Sintered stainless steel filter

Installation kit:
- No kit

Operating manual language:
- No manual

PC Accessories:
- No

Additional maintenance:
- No maintenance and repair contract

**TOTAL VALUE**
HMT337 Humidity and Temperature Transmitter with warmed probe

For dew point or relative humidity measurements under high humidity

**Transmitter type**
- Vaisala HUMICAP® humidity and temperature Transmitter
  - HMT337

**Parameters**
- Channel 1, Channel 2, Channel 3
- Analog output signals (for Ch1 & Ch2 & Ch3)
  - HMT337 Humidity and Temperature Transmitter with warmed probe

**Output units**
- Metric: mV, V, mA, °C
- Non-metric: mV, V, mA, °F

**Option for module slot 1**
- No module
- Relay output
- Analog output interface (provenance include)
- LAN (Ethernet) interface + 2 m cable (RJ45)
- 3rd Analog output
- No module
- Analog output signals (for Ch1 & Ch2 & Ch3)

**Option for module slot 2**
- No module
- Relay output
- Analog output signals (for Ch1 & Ch2 & Ch3)

**Cable length**
- 2 m cable
- 5 m cable
- 10 m cable
- 20 m cable

**Additional temperature probe**
- No probe
- 2 m cable

**Order no.**
- L1Jspare: HUMICAP180RC
- XA

**Additional temperature Display**
- (0...262 gr/ft³)

**Signal output**
- Analog output channel (Ch1 & Ch2 & Ch3)
  - 0...20 mA
  - 0...1 V

**Cable length**
- 2 m cable
- 5 m cable
- 10 m cable
- 20 m cable

**Power supply**
- 18...35 VDC; 24 VAC

**Display**
- Graphical display with keypad

**Technical specifications**
- HMT337 Transmitter
  - Channel 1
  - Channel 2
  - Channel 3

**Order form**
- Purchaser
- Valid from August 2020

**Example of order code with typical settings:**

- L1Jspare: HUMICAP180RC
- XA

**End customer:**
- Restricted

**TOTAL VALUE**

**TOTAL VALUE**

**Example of order code with typical settings:**

- L1Jspare: HUMICAP180RC
- XA

**End customer:**
- Restricted
HMT338 Humidity and Temperature Transmitter

For pressurized pipelines

### Parameters
- **2 m cable for 232 mm probe**
- **5 m cable for 232 mm probe**
- **10 m cable for 232 mm probe**
- **20 m cable for 454 mm probe**
- **10 m cable for 454 mm probe**
- **20 m cable for 454 mm probe**

### Display
- No display
- Graphical display with keypad

### Power supply
- 10...35 VDC, 24 VAC
- Universal AC-power (100...240 VAC)
- Universal AC-power (100...240 VAC) + US power cord
- Universal AC-power (100...240 VAC) + EU power cord
- Universal AC-power (100...240 VAC) + UK power cord
- Universal AC-power (100...240 VAC) + AUS power cord

### Signal output
- Analog output channel (Ch1/Ch2/Ch3)
- Analog output channel (Ch1/Ch2/Ch3)
- Analog output channel (Ch1/Ch2/Ch3)

### Analog output signals
- 4...20 mA
- 0...10 V
- 0...5 V

### Transmitter type
- Vaisala HUMICAP® Humidity and Temperature Transmitter
- HMT330

### Accessories
- Cable bushings
- 8-pole counter connector equipped with screw terminals
- DIN rail kit
- Pole installation kit with rain shield
- Wall mounting plate
- Non-metric
- Metric

### Additional maintenance
- No maintenance and repair contract

---

**Example of order code with typical settings:**

```
HMT338 [Channel 1] [Channel 2] [Channel 3]
```

---

**Totals:**

Total:

---

**Notes:**

- Selections in bold are included in the prices of the basic versions.
- Selections in italic are available at an extra price.
- Selections in bold are included in the prices of the basic versions.
- Special conditions apply for calibration.
- See separate order form.