

## Tender text

### Compact heat meter zelsius® C5-ISF qp 0,6

| Item  | Quantity | Tender text  | Unit price € | Total price € |
|-------|----------|--|--------------|---------------|
|       |          | <p><b>consisting of</b> heat calculator, flow sensor, temperature sensor</p> <p><b>General description</b></p> <p><b>Heat calculator</b></p> <ul style="list-style-type: none"> <li>- Microprocessor Heat calculator</li> <li>- 6-year battery (optionally 11 years)</li> <li>- MID type examination certificate according to directive 2014 / 32 / EU in the metrological class 3</li> <li>- Standard optical interface (ZVEI, IrDA)</li> <li>- The integral self-monitoring with fault indicator</li> <li>- Temperature range 0 °C - 105 °C</li> <li>- Temperature difference range 3 K - 80 K</li> <li>- LC-display with 8 digits and special characters</li> <li>- Due date can be programmed</li> <li>- Stores monthly with date readings during the whole running time</li> <li>- Extensive storage of flow rate, performance and other parameters</li> <li>- detachable heat calculator with connecting cable 1.2 m including wall adapter</li> <li>- Protection class IP54</li> <li>- Storage temperature -20 °C to + 65 °C</li> </ul> <p><b>Temperature sensor</b></p> <ul style="list-style-type: none"> <li>- Type PT 1000, Version: 5.0 x 45 mm, 5.2 x 45 mm, DS 27.5</li> <li>- Temperature resistant cables, the cable length 1.5 m (optionally 5 m)</li> <li>- Return flow sensor integrated in the flow sensor (optionally external)</li> </ul> <p><b>Flow sensor for zelsius® C5-ISF qp 0,6</b></p> <ul style="list-style-type: none"> <li>- single-jet flow sensor with reaction-free electronic impeller detection</li> <li>- Temperature range 10 – 90°C</li> <li>- Minimum flow qi 12 l/h (alternative 24 l/h)</li> <li>- starting flow approx 4 l/h</li> <li>- Normal flow qp 0,6 m³/h</li> <li>- Maximum flow qs 1,2 m³/h</li> <li>- Installation position horizontal, horizontal tipped through 90°, vertical</li> </ul> <p>Nominal diameter                      DN 15<br/>           Connection                              G 3/4 B<br/>           Overall length                            110 mm<br/>           Measurement accuracy class        3<br/>           Operating pressure                      PN 16<br/>           Protection class                          IP54</p> <p><b>Compact heat meter zelsius® C5-ISF qp 0,6</b><br/>           Make    ZENNER International</p> |              |               |
| ..... | .....    | <ul style="list-style-type: none"> <li>- optional M-Bus</li> <li>- optional wireless M-Bus (OMS)</li> <li>- optional LoRa-radio module</li> <li>- optionally with 3 pulse inputs or outputs</li> <li>- optional combined heat/cooling measuring with automatic switching</li> <li>- optional the length of the sensor cable 5 m</li> <li>- optional Temperature sensor type DS 27.5</li> <li>- optional flange version</li> <li>- optional ball valve installation kit for direct temperature sensor mounting</li> </ul>   | .....        | .....         |
| ..... | .....    | <b>Total price including the fixed fee of the conformity assessment:</b>   | .....        | .....         |

## Tender text

### Compact heat meter zelsius® C5-ISF qp 1,5

| Item | Quantity | Tender text   | Unit price € | Total price € |
|------|----------|---|--------------|---------------|
|      |          | <p><b>consisting of</b> heat calculator, flow sensor, temperature sensor</p> <p><b>General description</b></p> <p><b>Heat calculator</b></p> <ul style="list-style-type: none"> <li>- Microprocessor Heat calculator</li> <li>- 6-year battery (optionally 11 years)</li> <li>- MID type examination certificate according to directive 2014 / 32 / EU in the metrological class 3</li> <li>- Standard optical interface (ZVEI, IrDA)</li> <li>- The integral self-monitoring with fault indicator</li> <li>- Temperature range 0 °C - 105 °C</li> <li>- Temperature difference range 3 K - 80 K</li> <li>- LC-display with 8 digits and special characters</li> <li>- Due date can be programmed</li> <li>- Stores monthly with date readings during the whole running time</li> <li>- Extensive storage of flow rate, performance and other parameters</li> <li>- detachable heat calculator with connecting cable 1.2 m including wall adapter</li> <li>- Protection class IP54</li> <li>- Storage temperature -20 °C to + 65 °C</li> </ul> <p><b>Temperature sensor</b></p> <ul style="list-style-type: none"> <li>- Type PT 1000, Version: 5.0 x 45 mm, 5.2 x 45 mm, DS 27.5</li> <li>- Temperature resistant cables, the cable length 1.5 m (optionally 5 m)</li> <li>- Return flow sensor integrated in the flow sensor (optionally external)</li> </ul> <p><b>Flow sensor for zelsius® C5-ISF qp 1,5</b></p> <ul style="list-style-type: none"> <li>- single-jet flow sensor with reaction-free electronic impeller detection</li> <li>- Temperature range 10 – 90°C</li> <li>- Minimum flow qi 30 l/h (alternative 60 l/h)</li> <li>- starting flow approx 4 l/h</li> <li>- Normal flow qp 1,5 m³/h</li> <li>- Maximum flow qs 3,0 m³/h</li> <li>- Installation position horizontal, horizontal tipped through 90°, vertical</li> </ul> <p>Nominal diameter                      DN 15<br/>           Connection                            G 3/4 B<br/>           Overall length                        110 mm<br/>           Measurement accuracy class    3<br/>           Operating pressure                PN 16<br/>           Protection class                      IP54</p> <p><b>Compact heat meter zelsius® C5-ISF qp 1,5</b><br/>           Make    ZENNER International</p> <p>.....                      .....</p> <ul style="list-style-type: none"> <li>- optional M-Bus</li> <li>- optional wireless M-Bus (OMS)</li> <li>- optional LoRa-radio module</li> <li>- optionally with 3 pulse inputs or outputs</li> <li>- optional combined heat/cooling measuring with automatic switching</li> <li>- optional the length of the sensor cable 5 m</li> <li>- optional Temperature sensor type DS 27.5</li> <li>- optional flange version</li> <li>- optional ball valve installation kit for direct temperature sensor mounting</li> </ul> <p>.....                      .....</p> <p>.....                      ..... Total price including the fixed fee of the conformity assessment:</p> |              |               |

## Tender text

### Compact heat meter zelsius® C5-ISF qp 2,5

| Item  | Quantity | Tender text  | Unit price € | Total price € |
|-------|----------|--|--------------|---------------|
|       |          | <p><b>consisting of</b> heat calculator, flow sensor, temperature sensor</p> <p><b>General description</b></p> <p><b>Heat calculator</b></p> <ul style="list-style-type: none"> <li>- Microprocessor Heat calculator</li> <li>- 6-year battery (optionally 11 years)</li> <li>- MID type examination certificate according to directive 2014 / 32 / EU in the metrological class 3</li> <li>- Standard optical interface (ZVEI, IrDA)</li> <li>- The integral self-monitoring with fault indicator</li> <li>- Temperature range 0 °C - 105 °C</li> <li>- Temperature difference range 3 K - 80 K</li> <li>- LC-display with 8 digits and special characters</li> <li>- Due date can be programmed</li> <li>- Stores monthly with date readings during the whole running time</li> <li>- Extensive storage of flow rate, performance and other parameters</li> <li>- detachable heat calculator with connecting cable 1.2 m including wall adapter</li> <li>- Protection class IP54</li> <li>- Storage temperature -20 °C to + 65 °C</li> </ul> <p><b>Temperature sensor</b></p> <ul style="list-style-type: none"> <li>- Type PT 1000, Version: 5.0 x 45 mm, 5.2 x 45 mm, DS 27.5</li> <li>- Temperature resistant cables, the cable length 1.5 m (optionally 5 m)</li> <li>- Return flow sensor integrated in the flow sensor (optionally external)</li> </ul> <p><b>Flow sensor for zelsius® C5-ISF qp 2,5</b></p> <ul style="list-style-type: none"> <li>- single-jet flow sensor with reaction-free electronic impeller detection</li> <li>- Temperature range 10 – 90°C</li> <li>- Minimum flow qi 50 l/h (alternative 100 l/h)</li> <li>- starting flow approx 5 l/h</li> <li>- Normal flow qp 2,5 m³/h</li> <li>- Maximum flow qs 5,0 m³/h</li> <li>- Installation position horizontal, horizontal tipped through 90°, vertical</li> </ul> <p>Nominal diameter                      DN 20<br/>           Connection                            G 1 B<br/>           Overall length                        130 mm<br/>           Measurement accuracy class    3<br/>           Operating pressure                 PN 16<br/>           Protection class                      IP54</p> <p><b>Compact heat meter zelsius® C5-ISF qp 2,5</b><br/>           Make    ZENNER International</p> |              |               |
| ..... | .....    | <ul style="list-style-type: none"> <li>- optional M-Bus</li> <li>- optional wireless M-Bus (OMS)</li> <li>- optional LoRa-radio module</li> <li>- optionally with 3 pulse inputs or outputs</li> <li>- optional combined heat/cooling measuring with automatic switching</li> <li>- optional the length of the sensor cable 5 m</li> <li>- optional Temperature sensor type DS 27.5</li> <li>- optional flange version</li> <li>- optional ball valve installation kit for direct temperature sensor mounting</li> </ul>   | .....        | .....         |
| ..... | .....    | <b>Total price including the fixed fee of the conformity assessment:</b>   | .....        | .....         |

22.01.2013