The Codix 130 is a simple battery powered pulse counter for fast and slow count pulses with 8-digit LCD display, optional backlighting, for NPN, PNP and high voltage applications.

### Powerful
- High quality LCD display with 8 mm high figures
- Count direction adding and subtracting via control input
- Battery life approx. 8 years
- Optional display backlighting
- Filter function for bounce-free counting with mechanical contacts
- Count frequency max. 12 kHz
- High protection level IP65

### Simple
- Screw terminals, RM 5 mm
- Reset key lockable via the input ‘Reset Enable’
- For positive and negative counting edges, depending on version
- High voltage version for 10 ... 260 V AC/DC voltage pulses
- Large 8-digit LCD display with 8 mm high figures

### Order code

<table>
<thead>
<tr>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlighting</td>
<td>5</td>
</tr>
<tr>
<td>Count input (input type: count) – single-channel, adding or subtracting counting</td>
<td>1) Stock types 2) Single-channel, adding or subtracting counting</td>
</tr>
</tbody>
</table>

### Delivery specification
- Pulse counter
- Mounting clip
- Front bezel for screw mounting (T008181)
- Front bezel for clip mounting (T008180)
- Gasket
- Instruction manual, multilingual
Pulse counters, electronic

### LCD pulse counters

#### Adding or subtracting (battery)

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Dimensions in mm [inch]</th>
<th>Codix 130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter front bezel, 72 x 36 [2.83 x 1.42]</td>
<td>For cut-out 68 x 33 [2.68 x 1.30] to cut-out 45 x 22.2 [1.77 x 0.87], for counters 48 x 24 [1.89 x 0.94], as set black and silver anodised</td>
<td>162704 Set</td>
</tr>
<tr>
<td>Adapter front bezel, 48 x 48 [1.89 x 1.89]</td>
<td>For cut-out 45 x 45 [1.77 x 1.77] to cut-out 45 x 22.2 [1.77 x 0.87], with clip mounting for counters 48 x 24 [1.89 x 0.94]</td>
<td>black T008883</td>
</tr>
<tr>
<td>Adapter front bezel, 60 x 50 [2.36 x 1.97]</td>
<td>For cut-out 54 x 29 [2.13 x 1.14] to cut-out 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94]</td>
<td>black N003001</td>
</tr>
<tr>
<td>Transparent cover, lockable, IP65</td>
<td>For cut-out 54 x 29 [2.13 x 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98] or 45 x 22.2 [1.77 x 0.87]</td>
<td>N003002</td>
</tr>
<tr>
<td>Sealing cover type K1, IP65</td>
<td>Suitable for front bezel 60 x 50 [2.36 x 1.97], for screw mounting of electromech. counters and via adapter front bezel N003001 for counters 48 x 24 [1.89 x 0.94]</td>
<td>G008301</td>
</tr>
<tr>
<td>Mounting frame with cut-out 50 x 25 [2.36 x 1.97]</td>
<td>Suitable for front bezel 50 x 25 [1.97 x 0.98], for counters 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94]</td>
<td>G300004</td>
</tr>
</tbody>
</table>

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories.

### Technical data

#### General technical data

- **Display**: LCD, 8 digits, 8 mm [0.32"] high
- **Backlighting**: external electrical source 24 V DC ±20 %, 50 mA
- **Modes**: adding or subtracting (selectable)
- **Display range**: -9999999 ... 9999999, with overflow display
- **Reset**: manual and electrical
- **Working temperature**: -10°C ... +55°C [-14°F ... +131°F] (non-condensing)
- **Operating temperature**: -10°C ... +60°C [-14°F ... +140°F] (non-condensing)
- **Storage temperature**: -20°C ... +70°C [-4°F ... +158°F]
- **Altitude**: up to 2000 m [6562’]

#### Electrical characteristics

- **Power supply**: internal lithium battery approx. 8 years at 20°C [68°F]
- **EMC**: Emitted interference EN 55011 class B Immunity to interference EN 61000-6-2
- **Device safety**: Designed to Protection class EN 61010 part 1 Application area 2 Pollution level 2
- **UL approval**: File-No.: E128604

#### Mechanical characteristics

- **Housing**: dark grey RAL 7021
- **Protection**: IP65 (front side)
- **Weight**: approx. 50 g [1.76 oz]

### Counting inputs

#### Counting input of the DC-versions (max. 30 V DC)

- **slow counting input**: max. 30 Hz NPN
- **fast counting input**: max. 12 kHz (PNP), 7 kHz (NPN)
- **switching level NPN**: LOW 0 ... 0.7 V DC
- **switching level PNP**: LOW 0 ... 0.7 V DC

#### Counting input of the high voltage versions (10 ... 260 V DC/V AC)

- **optocoupler input**: max. 30 Hz
- **min. pulse time**: 16 ms
- **switching level NPN**: LOW 0 ... 0.7 V AC/DC
- **switching level PNP**: HIGH 10 ... 260 V AC/DC

#### Counting direction switching (only DC-version)

- **mode**: see order table
- **contact input**: Open Collector NPN
- **switching level NPN**: LOW 0 ... 0.7 V DC

#### Reset input (only DC and high voltage)

- **minimum pulse time**: 50 ms
- **contact input DC – NPN**: HIGH 16 ms
- **contact input DC – PNP**: LOW 0 ... 0.7 V DC
- **high voltage input**: HIGH 3 ... 30 V DC
- **high voltage output**: 10 ... 260 V AC/DC

#### Electrical reset key locking (for DC and high voltage)

- **contact input**: Open Collector NPN
- **switching level NPN**: LOW 0 ... 0.7 V DC

© Fritz Kübler GmbH, subject to errors and changes. 10/2013
Pulse counters, electronic

Terminal assignment

DC type: 6.130.012.8x0

DC type: 6.130.012.8x2

AC type: 6.130.012.8x3

Dimensions

Dimensions in mm [inch]

Front bezel for clip mounting (included in delivery)

Front bezel for screw mounting (included in delivery)

© Fritz Kübler GmbH, subject to errors and changes. 10/2013