

## unio METER

**Product:****unio METER**

Status :

23.04.2024

**unio****unio+**

|                                      |                                                                         |                                                                         |
|--------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Inputs                               | 4x analog or digital and 4x remote sensors (feature )                   | 4x analog or digital and 4x remote sensors (feature)+                   |
| Input configuration                  | 0...20mA / 4...20mA                                                     | 0...20mA / 4...20mA                                                     |
|                                      | 0...2V / 0...10V                                                        | 0...2V / 0...10V                                                        |
|                                      | PWM                                                                     | PWM                                                                     |
|                                      | Frequency                                                               | Frequency                                                               |
| Measuring range / Resolution         | Digital / Counter                                                       | Digital / Counter                                                       |
|                                      | 0...20mA / 4...20mA: 6.3µA, load 96R                                    | 0...20mA / 4...20mA: 6.3µA, load 96R                                    |
|                                      | 0...2V: 610µV                                                           | 0...2V: 610µV                                                           |
|                                      | 0...10V: 7.97mV                                                         | 0...10V: 7.97mV                                                         |
|                                      | PWM: 100Hz                                                              | PWM: 100Hz                                                              |
|                                      | Frequency: 1kHz                                                         | Frequency: 1kHz                                                         |
|                                      | Digital: 100ms                                                          | Digital: 100ms                                                          |
|                                      | Counter: 1ms                                                            | Counter: 1ms                                                            |
| Sensor supply                        | 2 x switchable 3.3V supply (max. 180mA )                                | 2 x switchable 3.3V supply (max. 180mA )                                |
|                                      | 1 x switchable and from 1 second adjustable sensor supply range 5...24V | 1 x switchable and from 1 second adjustable sensor supply range 5...24V |
| Temperaturesensor                    | Input 1x PT100/1000                                                     | Input 1x PT100/1000                                                     |
| Internal sensors and measured values | Input voltage                                                           | Input voltage                                                           |
|                                      | SOC (state of charge)                                                   | SOC (state of charge)                                                   |
|                                      | Battery life in days                                                    | Battery life in days                                                    |
|                                      | Mobile phone                                                            | Mobile phone                                                            |
|                                      | Humidity and temperature in the device                                  | Humidity and temperature in the device                                  |
| Serial interfaces, Bus interfaces    | 1x RS232 (feature activation)                                           | 1x RS232 (feature activation)                                           |
|                                      | 1 x RS485 galvanically isolated (option)                                | 1x RS485 (feature activation)                                           |
|                                      |                                                                         | 1x RS485 (feature activation)                                           |
|                                      |                                                                         | 1x SDI 12 (option)                                                      |
| Outputs                              | 1x potential-free switching contact                                     | 1x potential-free switching contact                                     |
| Supply                               | Battery or rechargeable battery                                         | Battery or rechargeable battery                                         |
|                                      | PV or direct supply from 9...32VDC                                      | Battery or rechargeable battery PV or direct supply                     |
|                                      | PSU supply concept                                                      | PSU supply concept                                                      |
| Battery life                         | Battery life up to 5 years                                              | Battery life up to 5 years                                              |
|                                      | Battery life up to 2 years                                              | Battery life up to 2 years                                              |
| Protection class                     | IP66 / IP68 (IP68: 105days@1m)                                          | IP66                                                                    |
| Display                              | RGB-LED                                                                 | RGB-LED                                                                 |
|                                      |                                                                         | 1,5" Full Color Display (option)                                        |
| Dimensions                           | 130 x 250 x 78mm (without antenna)                                      | 86 x 175 x 64mm (without antenna)                                       |
| Data transmission                    | 2G/M1/NB1 Worl                                                          | 2G/M1/NB1 World                                                         |
|                                      |                                                                         | 2G/3G/4G World                                                          |

| Optischer Impulseber                                                              |                                     | Magnetischer Impulsgeber                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|
|  |                                     |  |
| Manufacturer:                                                                     | Sensus / Diehl                      | Sensus / Diehl                                                                     |
| Type:                                                                             | Pulse generator 573 / Opto OD       | Reed Switch 570                                                                    |
| Compatibility:                                                                    | WESAN WS 233, WP 222, WB 234        | WESAN WP 222, WS 333, WPV 228                                                      |
|                                                                                   | WPV 228, WPV A 226/216, WP H 225    | CORONA MC118                                                                       |
| Resolution:                                                                       | 1 litre/pulse for DN50 to DN125     | 0.1 to 1 m³/pulse for DN50 to DN125                                                |
|                                                                                   | 10 litres/pulse for DN150 to DN300  | 1 to 10 m³/pulse for DN150 to DN300                                                |
|                                                                                   | 100 litres/pulse for DN400 to DN500 | 10 or 100 m³/pulse for DN400 to DN500                                              |
| Flow direction detection:                                                         | no                                  | no                                                                                 |
| Installation:                                                                     | Can be screwed onto the counter     | Clip onto the counter                                                              |
| Protection class:                                                                 | IP68                                | IP68                                                                               |
| Operating temperature:                                                            | -0...+85 °C                         | -25...+90 °C                                                                       |
| Dimensions without cable:                                                         | 84x32x14 mm                         | 11x25x9,5 mm                                                                       |
| Sensor cable:                                                                     | 5 m, 3x0,25 mm², ungeschirmt        | 10 m, 2x0,25 mm², ungeschirmt                                                      |