



UltraFlo 4000

truflo®

# Multi -Function UltraFlo 4000 Flow Meter

*Continuous + Dosing + Pulsating Flow*  
All Plastic Ultrasonic Measurement Technology-Plug & Play

## Features

- ▶ Industry's Toughest All Plastic Ultrasonic Flow Meter
- ▶ Heavy Duty Design; Simple to Install
- ▶ Completely Corrosion Resistant
- ▶ RS-485 / Modbus RTU (Optional)
- ▶ Display of Instantaneous Flow Rate
- ▶ 4-20mA Output + Pulse Relay
- ▶ Fit & Forget



## Specification

|                           |   |
|---------------------------|---|
| Power Supply              | 24VDC / 3,6W  |
| Connection                | M12x1 plug 5/8 pins   |
| Outputs                   | Current output configurable 0/4-20mA  |
| Input                     | Digital negligible pressure drop input usable for dosing start or counter reset |
| Communication Interface   | Data interface (1 wire) alternative RS-485 (2 wire)                             |
| Max. Error of Measurement | <0,5%   |
| Repeatability             |   |
| Material                  | PSU (Polysulfon)  |
| Protection class          | IP67  |
| Medium temperature        | -10° ...80°C  |

UltraFlo 4000 is a Flow Meter calculating the volume Flow of Liquids. Based on ultrasonic technology the UltraFlo 4000 is able to measure both conductive and non conductive liquids, as well as very corrosive liquids such as strong acids and alkalis. UltraTruflo has no moving parts and is absolutely free of wear. The design of the pipe minimizes dead space over the whole geometry. All parts having contact to the liquid is corrosion resistant Polysulfon. UltraFlo is characterised by its high measurement accuracy and repeatability.



### Housing

|                                 |                  |          |          |           |
|---------------------------------|------------------|----------|----------|-----------|
| Material                        | PSU (Polysulfon) |          |          |           |
| Protection class                | IP67             |          |          |           |
| Medium temperature              | -10° ...80°C*    |          |          |           |
| End of measuring range in l/min | 0,3 – 21         | 0,9 – 36 | 3,5 – 60 | 5,0 – 240 |
| Diameter DN                     | 15               | 15       | 20       | 25        |
| Max. pressure                   | 16 bar           | 16 bar   | 10 bar   | 10 bar    |

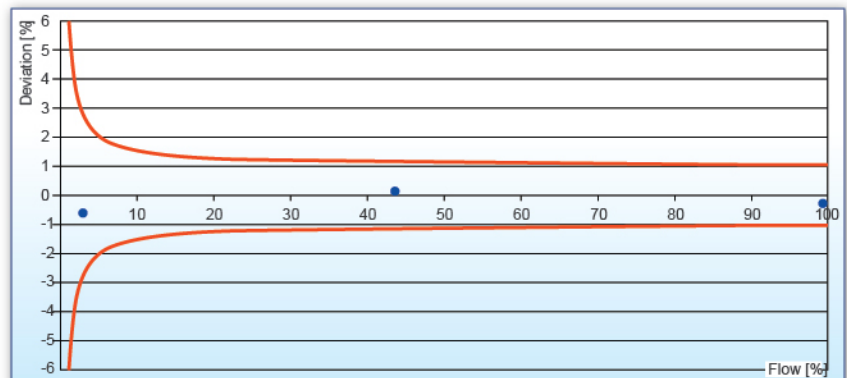
### Process connection

|                           |           |           |            |             |
|---------------------------|-----------|-----------|------------|-------------|
| Outside thread G or NPT   | 1/2"      | 3/4"      | 1"         | 1-1/4"      |
| Tube nozzle Ø outside     | 12 mm     | 17 mm     | 24 mm      | -           |
| BKS-clamp DIN11864 Form A | 34mm      | 34mm      | 50,5mm     | 50,5mm      |
| Dimensions L/W/H in mm    | 150/85/90 | 150/85/90 | 160/85/105 | 1170/85/105 |
| Weight                    | 350g      | 350g      | 450g       | 450g        |

### Electronics

|                           |  |
|---------------------------|--|
| Power supply              | 24VDC / 3,6W   |
| Connection                | M12x1 plug 5/8 pins  |
| Outputs                   | Current output configurable 0/4-20mA<br>Digital output Q1 configurable as pulse output or empty pipe alarm<br>Digital output Q2 configurable as pulse output or empty pipe alarm |
| Input                     | Digital input I1 usable for dosing start or counter reset  |
| Communication interface   | Data interface (1 wire) alternative RS-485 (2 wire)  |
| Max. error of measurement | ±1%  |
| Repeatability             | <0,5%  |
| Material                  | PSU (Polysulfon)   |
| Protection class          | IP67   |

By using the USB-Converter and truflo all flow meter parameters are freely configurable. truflo and USBtoRS485- Converter are not part of the delivery of UltraFlo 4000. This package can be ordered separately.



Example: Measuring points of a calibrated Truflo in error graph according definitions