

**GF International NEWS**  
Utility Segment No 01/2011

**International**

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**Water Distribution**



**Gas Distribution**



Schaffhausen, September 26, 2011

**To all Distributors and Agents for Utility Applications**

**Sales release Ultrasonic Clamp-On Flow Systems**

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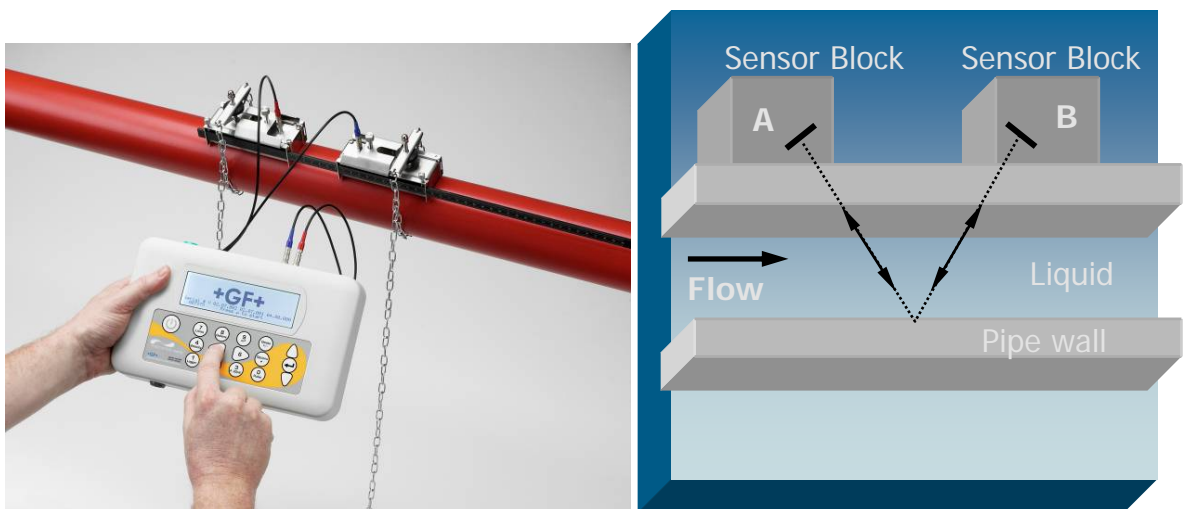
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## 1. Situation

Based on the Global M&C Survey we organised last year, Ultrasonic Clamp-On Flow (Transit time) appeared in the top 3 urgent and important product gaps in our M&C portfolio.

Micronics Ltd, specialised in this technology since 1985, recommended by Signet and already considered as a good and reliable supplier by GF Spain as well as GF Italy for local business, has been selected to become our partner regarding Ultrasonic Clamp-On Flow.

## 2. What's an Ultrasonic Clamp-On Flow sensor?



It's a flow sensor that measures the flow velocity by calculating the difference in time taken for the sound (Ultrasound) to travel either upstream against the flow or downstream. This time difference is extremely small - for example 30 nanoseconds ( $30 \times 10^{-9}$  sec) for a flow of 1 metre/sec in a 100mm pipe.

## 3. What are the customer benefits?

- No interruption to the process during commissioning, no down time for maintenance, easy to install.
- Unlimited pressure rating, zero pressure loss (energy efficient), no moving parts.

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- Ideal for temporary installation, pump efficiency testing, leak detection, flow sensor testing/calibration (e.g. Our insertion paddlewheel and magmeters).
- Available with or without Data Logging.
- One unit can measure any pipe diameter/material.

#### 4. What are the target applications?

- SB / BT / Water distribution:
  - Temporary or fixed installation to control the Flow, the consumption or a leak of water.
- WT / CPI:
  - Temporary or fixed installation to control the Flow, the consumption or a leak of water or a filtered chemical.

#### 5. Product selection

A selection matrix is available regarding the selection of a product versus an application.



Portaflow 330 (portable)



Portaflow 220 (portable)



Ultraflo 3000 (fixed installation)

#### 6. Price/ discount/ Product hierarchy

- A price list is available in EUR (see Attachment 1)
- Please contact your area sales manager to find out your individual discounts

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## 7. Display

- Hardware: Special Keypad including the following Logo



- Software Graphic Design: The name +GF+ will appear on the transmitter display every time the device is switched on.



- Software Setting Options: The following plastic materials will have a specific/fine-tuned K-factor instead of just one just factor for all plastic material like in the original device.
  - PVDF-SYGEF
  - PP-PROGEF
  - PE-ELGEF
  - PB-INSTAFLEX
  - ABS
  - PVC-U/PVC-C

**8. Documentation**

We offer a +GF+ design Datasheet and user manual for the following devices:

- Portaflow 330/220 (portable device)
- Ultraflow 3000/4000 (fixed installation)



**Sample of Portaflow 330 Datasheet for GF**

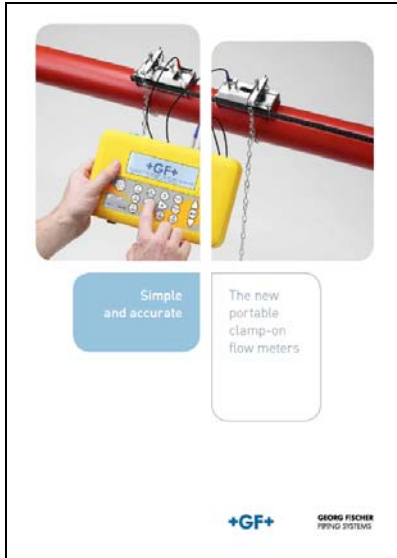
<b>Ultrasonic flow</b>						
<b>Ultraflo 3000/4000 Ultrasonic flow transmitter</b>						
d-d [mm]	Voltage	3000 A Code	3000 B Code	4000 A Code	4000 B Code	
13 - 115	230V AC	159 300 004		159 300 008		
13 - 115	24V DC	159 300 005		159 300 009		
50 - 2000	230V AC		159 300 006		159 300 010	
50 - 2000	24V DC		159 300 007		159 300 011	

**Catalogue Page sample**

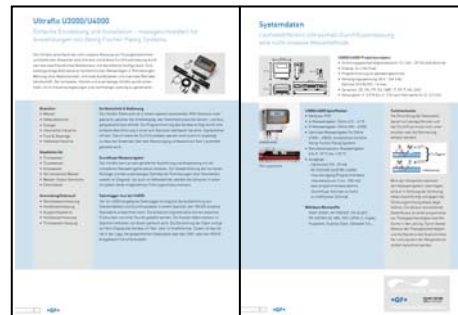
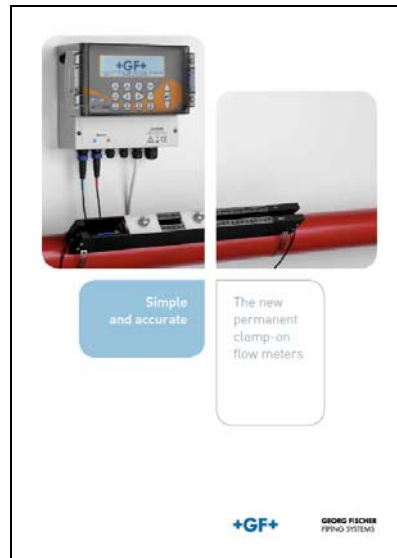
Flyers are available for portable device (PF220/330) as well as for the fixed installation (UF3000/4000). Each flyer comes in a 4-page design and available languages are German and English.

Flyers are ready to order with codes:

700.671.505 (GFDO\_6249\_4)



700.671.507 (GFDO\_6250\_4)



Yours sincerely

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Colm Lyons  
Market Segment Manager Utilities