# **DU06**

## Ultrasonic- Flowmeter and Counter with Local Indication

- heavy duty meter, brass- and stainless steel version
- for 1/2" to 2" pipes
- very broad measurement range: 0,5...80 to 8...1000 l/min
- 2-line LCD-display for flow and total indication
- output signals: 4...20 mA, 0...10 V for flow, pulses for total





#### **Description:**

The DU06 flowmeter is fitted with two ultrasonic sensors that are facing each other. The echo travel time is a function of the flow rate. The sensors act alternately as transmitter and receiver.

The echo time difference is proportional to the flow rate. In contrast to other types of ultrasonic flowmeters, the sensors are oriented parallel to the flow stream. This results in an extremely compact meter which is highly accurate, has outstanding turndown ratio dynamics and can monitor and meter very high flow rates without any reduction in pipe cross-sectional area.

#### **Typical applications:**

The DU06 measures, monitors and totalizes liquid flow. Among the applications for this device are cooling systems (water / glycol mixtures), non-conductive products (demineralized water, low viscous oils) and chemically aggressive and caustic liquids.



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#### **Models:**

- **DU06.M...** brass version, housing made of brass 2.0401, sensors made of stainless steel 1.4571, FKM gaskets, (EPDM optional), for 1/2" pipe only
- **DU06.E...** stainless steel version, housing made of stainless steel 1.4571, sensors made of stainless steel 1.4571, FKM gaskets, (EPDM optional), for 1/2" to 2" pipe

#### **Measuring ranges:**

Measuring range *)	Brass- version	St. steel- version	Process- connection
0,580 l/min	DU06.MR015	DU06.ER015	R 1/2 male
1180 l/min	-	DU06.ER025	R 1 male
81000 l/min	-	DU06.ER050	R 2 male

\*) Maximum ranges are specified. For a higher resolution the output can be programmed for end values < max. measuring range

#### **Electrical Data:**

#### Output signal:

adjustable on site: 4...20 mA, 0...10 V or frequency output and 2 limit relays

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#### Connection 4 pin plug: Power supply, output signal

Pin 1: 4-20 mA / 0-10 V / frequency output Pin 2: GND Pin 3: GND Pin 4: +24 VDC ±15%

#### Connection 6 pin plug: Relay output

Pin 1: relay 2, N/O contact Pin 2: relay 2, common contact Pin 3: relay 2, N/C contact Pin 4: relay 1, N/O contact Pin 5: relay 1, common contact Pin 6: relay 1, N/C contact

#### **Dimensions:**

#### DU06-DU06-DU06-100 ±1 100 ±1 100 ±1 R015 R025 R050 2 PAT R1/ Ē 20 115 F 208 ±2 300 ±2 157 ±2 228 ±2 320 ±2 133.5 ±3 99 ±3 99 ±3 99 ±3 84 61 ±1 84 ±3 84 ±3 61 ±1 61 ±1 100 ±1 00 5 ±2 163 100 ±1 Å, 135. 28 Stecker/ 0¢ PKP Prozessmesstechnik GmbH PKP Process Instruments Inc. 10 Brent Drive • Hudson, MA 01749 Borsigstr. 24 • D-65205 Wiesbaden Section 2012 - 0006 ● Section 2012 + 1-978-568-0060

#### **Order Code:**

Order number:	DU06.	E.	V.	R025.	0.	
Ultrasonic flowmeter and c with local indication	ounter					
Material version: M = brass housing, sensors st (with R ½ male connection E = st. steel housing, sensors S = special version	n only)	_				
<b>Gaskets:</b> V = FKM (standard) E = EPDM S = special gasket						
<b>Measuring range / Proce</b> R015 = 0,580 l/min, R ½ m R025 = 1180 l/min, R 1 ma R050 = 81000 l/min, R 2 m	ale le (only DU06.E.	)				
Output signal: 0 = universal output for power adjustable on site and 2 limit relays	, voltage or frec	quenc	cy,		۔ ـ	

#### Options:

- 0 = without
- 9 = please specify in plain text

### **Technical Data:**

Max. pressure:
Medium temperature:
Ambient temperature:
Accuracy:
Mounting position:
Medium:

Power supply: Power consumption: Outputs:

Limit value relay: Display: Protection class: Response time: Flow direction:

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25 bar -20...+100 °C -10...+60 °C ± 2% of full scale any, rotatable housing acoustically conductive liquids, solids content < 10 Vol.% 24 VDC ± 15% 200 mA max. 4...20 mA, 0...10 V, frequencyoutput (programmable, max. 32 kHz), Ri = 2 kOhm2 x changeover cont., 30 VDC / 1 A LCD, 2 x 16 digit, illuminated IP65 0,8...8 s, factory setting ca. 1,6 s adjustable in device