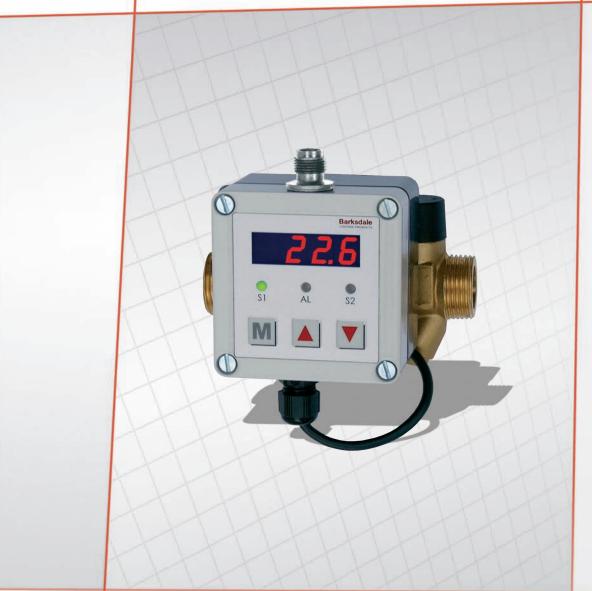
UQS 7 Electronic flow sensors



Flow

- **▶** Ultrasonic sensor
- ► linearity error 2.5 % m.v.
- rotable display unit



Electronic Flow Sensors

Electronic flow sensor for flow and volume flow monitoring with ultrasonic sensor, digital display, 2 set points and analog output, linearity error 2.5 % m.v.

Features

7-segment LED display, microprocessor-controlled, self monitoring with error display. all parameters are configured by keypad, tamper proof, keypad lock, rugged construction, vibration- and shock-proof, long term stability, display unit rotable in steps of 90°

Applications

OEM applications, Automotive, cooling, automobile industry



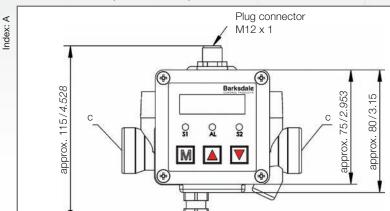
Sensor element:	ultrasc	nic sei	nsor		
Media:	Water and similar media, max. pressure 25 bar (higher pressures on request)				
Materials: Wetted parts: Electronics housing: seals (media): Keypad:	Brass, pressed Aluminum die-cast Klingersil® Polyester				
Operating elements:	3 easy-response pushbuttons				
System of protection:	IP65				
Protection class:	III				
Process connection:	G3/4, G1, G1 1/4, G2				
Dimensions:	100 x 140 mm				
Weight [g]: Measuring range [l/min]:	850 10	850 25	1200 40	3000	4000 170
Linearity error:	±2,5% m.v. at 25 °C				
A/D converter: Scanning rate:	500 ms				
Digital display: Display rate: Error display:	4-digit 7-segment LED display, red, digit height 12 mm 500 ms LED yellow and alphanumeric display				
Electrical connection:	Plug M12x1, 4-/5-pin				
Temperature influence:	±0,2% m.v./10K				
Compensation range:	-10 °C+70 °C				
Repeatability:	±0,1% m.v.				

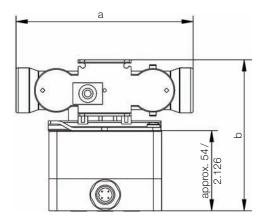


Temperature range: Medium (enclosure seperate from sensor): Electronics: Storage:	+4 °C+130 °C -10 °C+70 °C -30 °C+80 °C
Inlet - Outflow Zone:	Integrated in the meas. device
Power supply:	1532 V DC, reversed polarity protected (SELV, PELV)
Power consumption:	approx. 50 mA (without load)
Analog output: Current output: Load: Load influence: Scanning rate: Resolution: Option Voltage output: Rating: Adjustment range:	420 mA max. RI = (Ub-12 V)/20 mA RI = 600 Ohm at Ub = 24 V DC 0.3 %/100 Ohm 500 ms 10 Bit (1024 steps per measuring span) 010 V DC max. 10 mA, short-circuit proof 25 % 100 % m.v.
Transistor switching outputs: Switching function: Adjustment range: Switching frequency: Delay: Display:	Normally open / normally closed, standard / window mode and diagnosis function adjustable 0 % 125 % m.v. max. 100 Hz max. 500 mA, short-circuit proof 0.0 s 9.9 s adjustable LED green
Pulse output:	on request
Accessories:	Plug connector

Electronic Flow Sensors

Dimensions (in mm / inch)

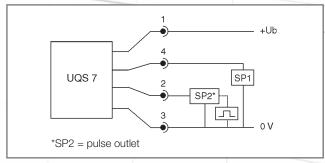


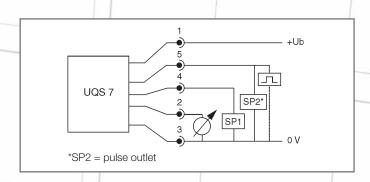


Туре	Measuring range [l/min]	a [mm/inch]	b [mm/inch]	С
UQS 7 - 10	010	110/4.331	100/3.937	G3/4
UQS 7 - 25	025	110/4.331	100/3.937	G3/4
UQS 7 - 40	040	190/7.48	100/3.937	G1

Туре	Measuring range [l/min]	a [mm/ <i>inch</i>]	b [mm/inch]	С
UQS 7 - 100	0100	260/10.236	130/5.118	G1 1/4
UQS 7 - 170	0170	300/11.811	135/5.315	G2

Connection diagram



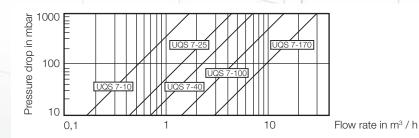


Order Numbers

Туре	UQS 7 - 10	UQS 7 - 25	UQS 7 - 40	UQS 7 - 100	UQS 7 - 170
Measuring range (Qn)*	0,0410 I / min	0,125 I / min	0,1640 I / min	0,4100 I / min	0,68170 l / min
Process connection	G3/4	G3/4	G1	G1 1/4	G2
2 switching outputs	0728-001	0728-003	0728-005	0728-014	0728-016
2 switching outputs, 1 analog output 420 mA	0728-002	0728-004	0728-006	0728-015	0728-017

^{*} Qmax = Qn x 2; in the range of Qmax the accuracy class is 3%.

Pressure Drop



Accessories

Order Number	Description
901-0677	Damping screw M4 x 0.2 for UDS 3, UDS 7, Switch 2000, material: brass
0099-001	Mounting traverse (1 set = 2 pcs)

Specialists for monitoring and control of:

- Pressure
- ▶ Temperature
- Level
- Flow

Almost sixty years of experience in the area of mechanical and electronic control of liquid media and responding to customers needs have resulted in an extensive range of products to meet a wide range of applications. Barksdale's priority is clear. It is our commitment to quality instrumentation and exceptional customer service that has remained the cornerstone of our success. Based on our innovative and market-focused technologies in the areas of pressure, level, flow and temperature measuring processes we provide solutions that fit.



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