

Type UQS 7

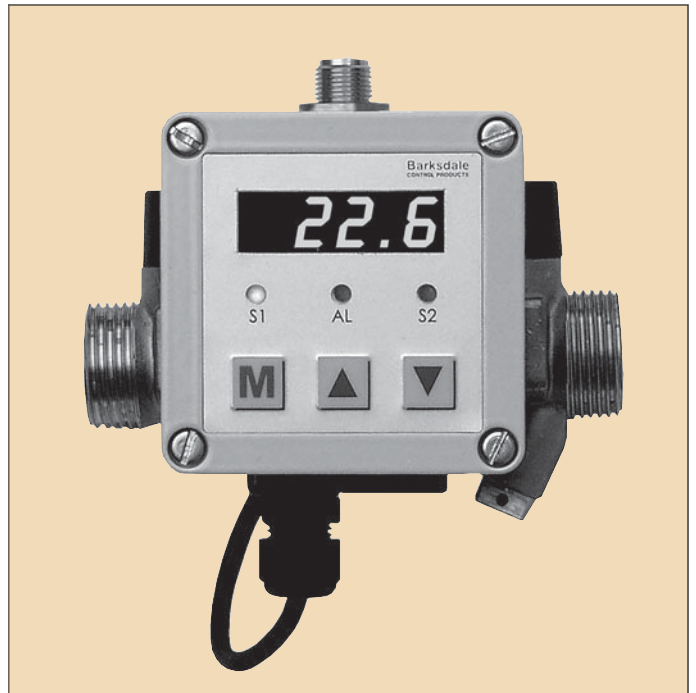
for flow monitoring with ultrasonic sensor, digital display, 2 set points and analog output, accuracy class 2,5% f. s.

Features

7-segment LED display, microprocessor-controlled, self monitoring with error display. DESINA® conformity (see also www.desina.de), all parameters are configured by keypad, tamper proof, keypad lock, rugged construction, vibration- and shock-proof, long term stability, display unit rotatable in steps of 90°

Applications

OEM-applications, automotive, automobile industry, cooling



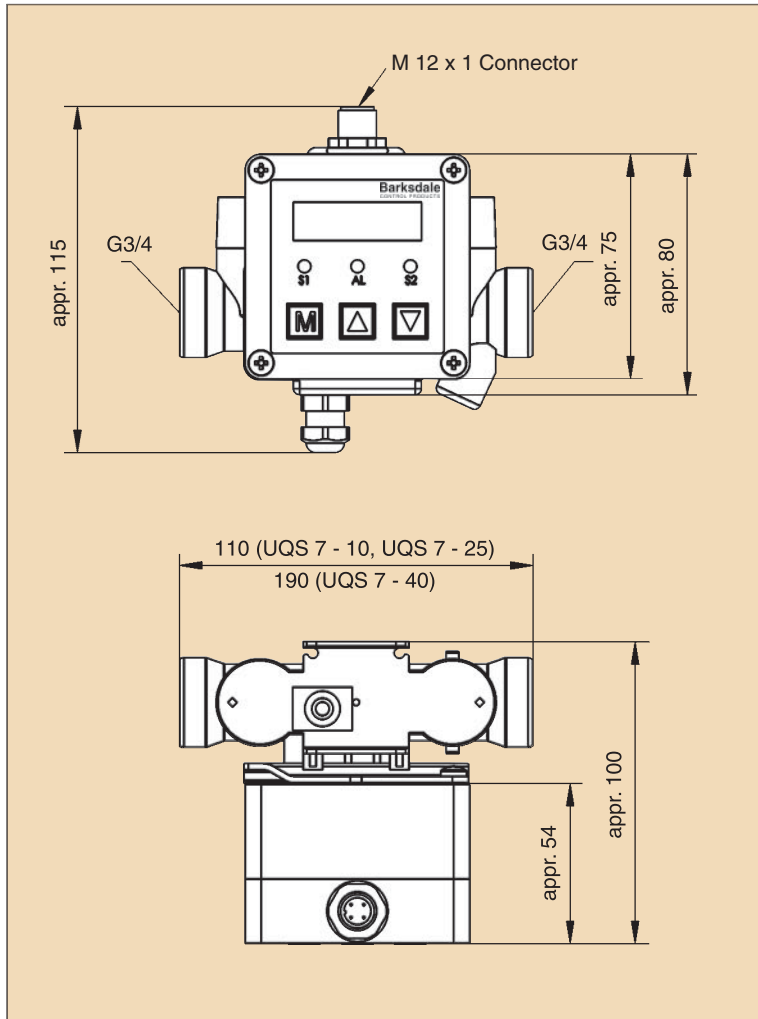
Technical Data

Sensor Element	: Ultrasonic sensor
Media	: Water and similar media, max. pressure 25 bar,
Materials:	
Wetted parts	: Brass, pressed
Housing (Electronics)	: Aluminum die-cast
Seals (Medium)	: Klingersiel
Pushbuttons	: Polyester
Operating Elements	: 3 easy response pushbuttons
Protection / Class	: IP65 / III
Pressure Connection	: G3/4 M, G1 M
Dimensions	: 100 mm x 140 mm
Weight	: 850 g / 850 g / 1200 g
Measur. Ranges l/min	: 10 / 25 / 40 (others on request)
Linearity Error	: ±2,5% M. W. at +25 °C
A/D-Converter	
Scanning Rate	: 500 ms (for peak value memory)
Electrical Connection	: Plug M 12 x 1, 4-/ 5-pin, DESINA®-conformity
Temperature Influence	: ±0,2% f. s. /10K
Compensation Range	: -10 °C...+70 °C
Repeatability	: ±0,1% f. s.
Temperature Range	: +4 °C...+130 °C (Medium - enclosure separate from sensor) -10 °C...+70 °C (Electronics) -30 °C...+80 °C (Storage)
Inlet - Outflow Zone	: Integrated in the measuring device

Power Supply	: 15 ...32 V DC, reversed polarity protected
Digital Display	: 4-digit 7-segment LED-display height 12 mm, red
Display Rate	: 500 ms
Error Display	: LED yellow and alphanumeric display, (diagnosis function acc. DESINA®)
Power Consumption	: appr. 50 mA (without load)
Analog Output	
Scanning Rate	: 500 ms
Resolution	: 10 bit (1024 steps per measuring span)
Current Output	: 4...20 mA
Load	: max. RI = (Ub-12 V) / 20 mA RI = 600 Ohm at Ub = 24 V DC
Load Influence	: 0,3% / 100 Ohms
Options	
Voltage Output	: 0...10 V DC
Rating	: max. 10 mA, short circuit-proof
Adjustment Range	: 25%...100% f. s.
Switching Output(s)	
Switching Function (adjustable)	: Normally open/ normally closed, standard-/windows-mode
Adjustment Range	: 0%... 125% f. s..
Hysteresis	: 0%... 125% f. s.
Diagnosis Function	: SP2 (DESINA®-model)
Switching Frequency	: max. 100 Hz max. 500 mA, short circuit-proof
Delay	: 0,0...9,9 s adjustable
Status Display(s)	: LED(s) green
Options	: Electrical plug

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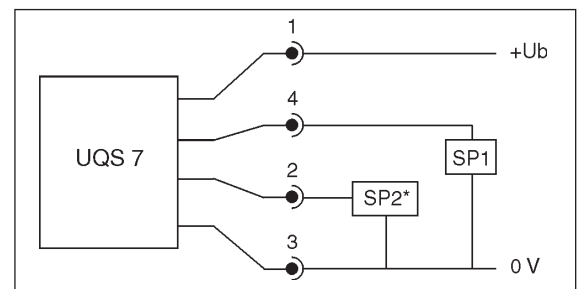
Dimensions (in mm)



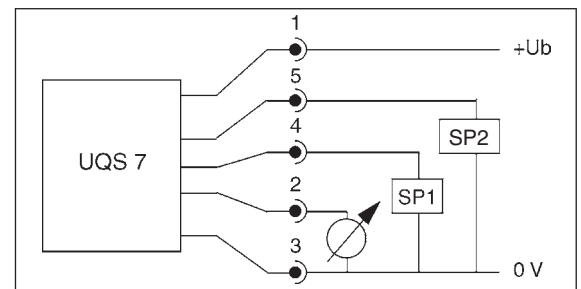
Connection Chart

Plug	Version with 2 switching outputs (DESINA®-version)	Version with 2 switching outputs and 1 analog output
M 12 x 1, 4 pin		
Pin 1	+Ub (15...32 V DC)	+Ub (15...32 V DC)
Pin 2	SP2 (0,5 A max.)	analog
Pin 3	0 V	0 V
Pin 4	SP1 (0,5 A max.)	SP1 (0,5 A max.)
Pin 5		SP2 (0,5 A max.)

Connection Scheme



* SP2 = Diagnosis output (DESINA®-version)

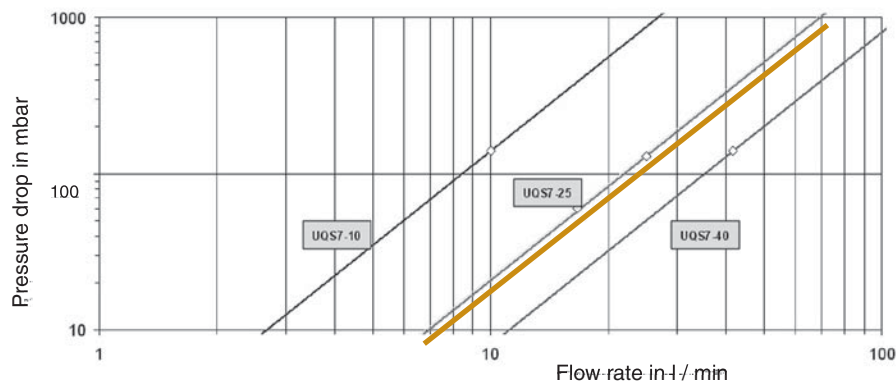


Optional: wiring acc. DESINA® standard

Order Numbers

Type	UQS 7 - 10	UQS 7 - 25	UQS 7 - 40
Measuring ranges	0,04...10 l / min	0,1...25 l / min	0,16...40 l / min
Process connection	G3/4	G3/4	G1
2 switching outputs	0728-001	0728-003	0728-005
2 switching outputs, 1 analog output 4...20 mA	0728-002	0728-004	0728-006

Pressure Drop



Accessories

Order Number	Description
907-0357	Electrical plug M 12 x 1, 4-pin, with screw terminal, 90° elbow
907-0185	Electrical plug M 12 x 1, 5-pin, with screw terminal, 90° elbow



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