Model key **ES-FLOW™**

Low-Flow Ultrasonic Flow Meters / Controllers for Liquids

ES- N N N A - A A A - NN - A - A - A A - ANA - N - ANA

Base

1	Meter

Pressure rating

0	10 bar (g)
1	100 bar (g)

Flow range

3	2…1500 ml/min

Housing

I	Industrial

Communication (I/O)

A	RS232 + Analog (n/c control)
B	RS232 + Analog (n/o control)
C	RS232 + POWERLINK (n/c control)
D	RS232 + DeviceNet (n/c control)
E	RS232 + DeviceNet (n/o control)
I	RS232 + EtherNet/IP (n/c control)
J	RS232 + EtherNet/IP (n/o control)
K	RS232 + CANopen (n/c control)
L	RS232 + CANopen (n/o control)
M	RS232 + Modbus (n/c control)
N	RS232 + Modbus (n/o control)
O	RS232 + POWERLINK (n/o control)
P	RS232 + PROFIBUS (n/c control)
Q	RS232 + PROFIBUS (n/o control)
R	RS232 + FLOW-BUS (n/c control)
S	RS232 + FLOW-BUS (n/o control)
T	RS232 + EtherCAT (n/c control)
U	RS232 + EtherCAT (n/o control)
V	RS232 + PROFINET (n/c control)
W	RS232 + PROFINET (n/o control)
X	RS232 + Modbus-TCP (n/c control)
Y	RS232 + Modbus-TCP (n/o control)

Analog output

A	0…5 Vdc
B	0…10 Vdc
F	0…20 mA sourcing
G	4…20 mA sourcing

Supply voltage

D	+15…24 Vdc

Process connections (in/out)

AA	3 mm OD compression type
11	⅛" OD compression type
22	¼" OD compression type
33	6 mm OD compression type
88	¼" Face seal male
JJ	¼" Tri-Clamp flanges (DIN32676-C) (max 10 bar (g))
KK	½" Tri-Clamp flanges (DIN32676-C) (max 10 bar (g))
99	Other (on request)

Internal seals

0	None

Material

S	Stainless steel SS316

Controller mode

0	Controller disabled (meter only)
A	Controller enabled, analog setpoint
D	Controller enabled, digital setpoint

Digital communication via M12-connection

A	RS232 - ProPar (default)
B	RS485 - FLOW-BUS
C	RS485 - Modbus RTU
D	RS485 - Modbus ASCII

Additional I/O connector (M8)

1	Enabled, Bronkhorst valve output (default)

PIN 5 M12 connector / PIN 2 M8 connector

Customized IO options

000	Disabled, 0 Vdc (default)
A1V	0-10 Vdc output, controller
B1V	4-20 mA output, controller
B2V	3.8-20.8 mA output (TEIP11/Badger), controller
C3A	Digital output, min/max alarm
C4A	Digital output, counter alarm
C5S	Digital output, enabled by setpoint (for shut-off control)
C0I	Digital output, high/low switch via remote parameter
D9E	Digital frequency output, measure
F9B	Digital pulse output, batch counter
I3C	Digital input, controller mode valve close
I8C	Digital input, controller mode valve fully open
I1R	Digital input, reset counter
I2R	Digital input, reset alarm

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