meter SM7000

URL:https://www.sxplc.com/meter-sm7000

Product data sheet

Product Characteristics

Total number of inputs and outputs

Number of digital outputs: 2; Number of analog outputs: 1

Measuring range

0.2.... .50 l/min

0.01.... .3 m³/h .3 m³/h

System connections

Threaded connection G 3/4 DN20 Flat seal

APPLICATIONS

Special properties

Gold-plated contacts

Applications

Adder function; for industrial applications

Mounting

Pipe connection via adapter

Medium

conductive liquids; water; water as basic medium

Description of the medium

Conductivity: ≥ 20 µS/cm

Viscosity: < 70 mm²/s (40 °C)

Temperature of the medium [°C]

-10.... .70

Compressive strength [bar]

16

Compressive strength [MPa]

1.6

Maximum permissible working pressure (for applications complying with CRN standards) [bar]

11.2

Electrical data

Operating voltage [V]

18.... .30 DC; (according to SELV/PELV)

Current loss [mA]

95; (24 V)

Protection class

III

Inverted phase protection

yes

Power-on delay time [s]

5

Total inputs/outputs

Total number of inputs and outputs

Number of digital outputs: 2; Number of analog outputs: 1

Inputs

Inputs

Counter reset

Outputs

Number of outputs

2

Output signals

Switch signal; Analog signal; Pulse signal; IO-Link; (Configurable)

Electrical design

PNP/NPN

Number of digital outputs

2

Output Function

Normally open/closed; (parameterizable)

Switching output DC voltage drop maximum value [V]

2

Continuous current load of switching output DC [mA]

200

Number of analog outputs

1

Analog current output [mA]

4.... .20; (adjustable range)

Maximum load value [Ω]

500

Analog voltage output [V]

0.... .10; (adjustable range)

Minimum load resistance [Ω]

2000

Pulse output

Flow meter

Short-circuit protection

yes

Short-circuit protection type

Pulse

Overload protection

Yes

Measuring/setting range

Measuring range

0.2.... .50 l/min

0.01.... .3 m³/h

Display range

-60... .60 l/min .60 l/min

-3.6... .3.6 m³/h .3.6 m³/h

Resolution

0.1 l/min

0.001 m³/h

Switching point, SP

0.5..... .50 l/min

0.027....3 m³/h .3 m³/h

Recovery point, rP

0.2... .49.8 l/min .49.8 l/min

0.012... .2.985 m³/h .2.985 m³/h

Measured value starting point, ASP

0.... .40 l/min

0.... .2.4 m³/h

Measured value end point, AEP

10.... .50 l/min

0.6... .3 m³/h .3 m³/h

Steps

0.1 l/min

0.001 m³/h

Flow monitoring

Pulse value

0.00001.... .50 000 m³

Pulse length [s]

0,005.... .2

Temperature monitoring

Measuring range [°C]

-20.... .80

Resolution [°C]

0.2

Switching point, SP [°C]

-19.2.... .80

Recovery point, rP [°C]

-19.6.... .79.6

Measured value starting point [°C]

-20.... .60

Measured value end point [°C]

0.... .80

Setting step [°C]

0.2

Accuracy / Deviation

Flow monitoring

Accuracy (in the measuring range)

± (0,8 % MW + 0,5 % MEW)

Repeatability

± 0,2 % MEW

Temperature monitoring

Accuracy [K]

± 2,5 (Q > 5 l/min)

Reaction time

Flow rate monitoring

Reaction time [s]

0.15; (dAP = 0, T19)

Programmable delay time dS, dr [s]

0.... .50

Damping process value dAP [s]

0.... .5

Temperature monitoring

Response time T05 / T09 [s]

T09 = 20 (Q > 5 l/min)

Software / Programming

Parameterization

Flow monitoring; Quantity meter; Preset capacity meter; Temperature monitoring; Hysteresis/window; Normally open/closed; Output polarity; Current/voltage/pulse output; Start-up delay; Display can be switched off; Display units

Interfaces

Communication interfaces

IO-Link