

AS005 Thermal flow meter M18x1,5I (programmable)

Order by 2 pm - **Shipping on the same working day**

244,62 € offline price ~~258,86 €~~

Incl. 5.5% online discount for online orders

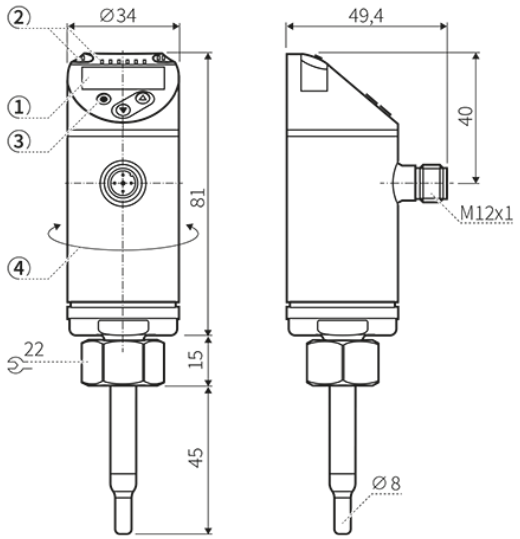
Overview

- **For water, air, oils, glycol solutions, low-viscosity oils; different sensitivity curves can be programmed depending on the medium**
- **Colour display signals at first glance whether the process is running within the target range**
- **with IO-Link**
- **extremely robust and more resistant to malfunctioning**
- **Protection rating IP65/ IP67**

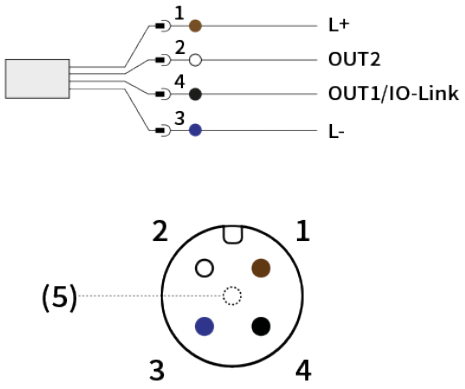
www.autosen.com/AS005
Direct link to the article on autosen.com

In daily use - proven millions of times over. Products from autosen are under highest quality requirements regarding robustness, insensitivity and reliability.
We offer 5 years warranty - with money-back guarantee!

Dimensional drawing



Connection & pin assignment



Dimensional drawing legend

1: LEDs (display unit / switching status)

2: 4-digit alphanumeric display

3: Programming button

4: Upper part of the housing can be rotated by 345°

General information

Range of application	Water; glycol solutions; air; oils low-viscosity oils with viscosity: = 40 mm²/s (40 °C) high-viscosity oils with viscosity: > 40 mm²/s (40 °C)
Flow measurement speed of gaseous media	2 ... 100 m/s
Flow measurement speed of liquid media	0.04 ... 3 m/s
Parametrisation options	Hysteresis / window
	Normally open / Normally closed
	Switching logic
	Current /frequency output
	Media selection
	Damping
	Teach function
	Display rotates / can be switched off
	Standard unit of measure
	Colour of process value
Temperature measuring range min.	-20°C
Temperature measuring range max.	90°C
Adjustment range	0 ... 6 m/s (liquid) | 0 ... 200 m/s (gaseous)

Outputs / inputs

Switching output	2 x normally closed / normally open programmable
Analogue output	4 ... 20 mA
	Programmable
	Scalable
Comment on analogue output	When used with an analog output use exclusively sensor cables without LED
IO-Link	Yes

Electrical data

Operating voltage	18 ... 30 V DC
Voltage type	Direct voltage (DC)
Electrical design	PNP
	NPN*
	*Programming buttons
	*IO-Link parameterisation
Current carrying capacity max.	250mA
Voltage drop max.	2.5V
Current consumption max.	100mA
Protection class	III
Short-circuit protection	Yes
Overload-proof	Yes
Reverse polarity protection	Yes

Mechanical data

Materials in contact with the medium	V4A (1.4404)
	FKM
Union nut tightening torque	25 Nm
Material of housing	V4A (1.4404)
	V2A (1.4310)
	PBT-GF 20
	PBT-GF 30
Electrical connection	M12
	4-pin
	Contacts gold-plated
Pressure resistance	100 bar
Process connection	For adapter
	Internal thread
	M18 x 1.5

Accuracy

Resolution	0.02 m/s * | 0.2 °C
Reproducibility	0.05 m/s *
Response dynamics of T05 / T09	1,5 s * (for temperature monitoring)
Accuracy	± (7 % MV+ 2 % MREV) ** | ± 0.3 °C / ± 1 °C
Comment	* applies to water
	** MV = measured value, MREV = measurement range end value
Response time	Water: 0.5 s; glycol: 0.8 s; air: 7 s; oil: 1.8 s (T09 for flow monitoring in each case)

Ambient conditions

Ambient temperature min.	-40°C
Ambient temperature max.	80°C
Protection rating	IP65
	IP67

Additional information

MTTF	212years
Function display	LED
	Yellow
	Green
	Programming keys
	4-digit display
	Red / green display
Accessories included with delivery	No accessories included
EMC test	DIN EN 60947-5-9
Shock resistance test	DIN EN 60068-2-27
Vibration resistance test	DIN EN 60068-2-6
Approval	CE
	cULus
Customs tariff number	90261021
Weight	0.275 kg
Country of origin	DE

Accessories: Process adapter



AA934
Adapter M18x1.5 G1/4A 13.5 mm
Unit price: 15,20 €*



AA933
Adapter M18x1.5 G1/2A 21 mm
Unit price: 18,09 €*



AA935
Adapter M18x1.5 G1/4A 13.5 mm
Unit price: 23,51 €*



AA932
Adapter M18x1.5 G1/2A 21 mm
Unit price: 30,50 €*

Accessories: Display for analog sensors



AG002
TFT display for sensors
Unit price: 190,65 €*



AG001
Process Display
Unit price: 95,22 €*



AD003
Display for analogue signals
Unit price: 119,76 €*



AN004
Multifunction relay for sensors
Unit price: 157,24 €*

Accessories: IO-Link



AD001
IO-Link Master
Unit price: 249,01 €*



ADS01
IO-Link starter kit
Unit price: 299,00 €*



AD009
IO-Link IoT-Master
Unit price: 331,82 €*

Accessories: Switching amplifier / evaluation



AN001
One-channel switching amplifier
Unit price: 84,58 €*

Accessories: M12/M12 connection cable | 4-pol. | PUR | IP67



AA209
Connection cable M12/M12 4P PUR 2m IP67
Unit price: 9,57 €*



AA211
Connection cable M12/M12 4P PUR 2m IP67
Unit price: 11,03 €*



AA210
Connection cable M12/M12 4P PUR 5m IP67
Unit price: 12,81 €*



AA212
Connection cable M12/M12 4P PUR 5m IP67
Unit price: 13,62 €*

Accessories: M12/M12 connection cable | 4-pin | PUR | IP69K



AA205
Connection cable M12/M12 4P PUR 10m IP69K
Unit price: 23,16 €*



AA202
Connection cable M12/M12 4P PUR 5m IP69K
Unit price: 18,00 €*



AA201
Connection cable M12/M12 4P PUR 2m IP69K
Unit price: 14,71 €*

Accessories: M12 sensor cable | 4-pin | PUR | IP67



AA052
Sensor cable M12 4P PUR 2m IP67
Unit price: 6,26 €*



AA054
Sensor cable M12 4P PUR 2m IP67
Unit price: 6,64 €*



AA053
Sensor cable M12 4P PUR 5m
IP67
Unit price: 8,39 €*



AA055
Sensor cable M12 4P PUR 5m
IP67
Unit price: 8,91 €*

Accessories: M12 sensor cable | 4-pin | PVC | IP67



AA042
Sensor cable M12 4P PVC 10m
IP67
Unit price: 13,36 €*



AA039
Sensor cable M12 4P PVC 10m
IP67
Unit price: 11,01 €*



AA041
Sensor cable M12 4P PVC 5m
IP67
Unit price: 10,05 €*



AA038
Sensor cable M12 4P PVC 5m
IP67
Unit price: 8,15 €*



AA040
Sensor cable M12 4P PVC 2m
IP67
Unit price: 7,33 €*



AA037
Sensor cable M12 4P PVC 2m
IP67
Unit price: 6,22 €*



AA064
Sensor cable M12 4P PVC 2m
IP67
Unit price: 4,66 €*



AA066
Sensor cable M12 4P PVC 2m
IP67
Unit price: 4,98 €*



AA065
Sensor cable M12 4P PVC 5m
IP67
Unit price: 6,23 €*



AA067
Sensor cable M12 4P PVC 5m
IP67
Unit price: 6,62 €*

Accessories: M12 sensor cable | 4-pin | PVC | IP69K



AA025
Sensor cable M12 4P PVC 25m
IP69K
Unit price: 24,72 €*



AA024
Sensor cable M12 4P PVC 10m
IP69K
Unit price: 15,84 €*



AA023
Sensor cable M12 4P PVC 5m
IP69K
Unit price: 12,90 €*



AA031
Sensor cable M12 4P PVC 2m
IP69K
Unit price: 12,63 €*

Accessories: M12 sensor cable | 4-pin | PUR | IP69K



AA017
Sensor cable M12 4P PUR 10m
IP69K
Unit price: 14,04 €*



AA006
Sensor cable M12 4P PUR 5m
IP69K
Unit price: 11,40 €*



AA005
Sensor cable M12 4P PUR 2m
IP69K
Unit price: 9,84 €*

Accessories: M12 connector | 4-pin | plug



AA946
Wireable connector angled M12
Unit price: 6,05 €*



AA921
Wireable connector M12
Unit price: 6,05 €*



AA961
Wireable connector angled M12
IP69k
Unit price: 15,72 €*



AA959
Wireable connector straight M12
IP69k
Unit price: 15,72 €*

Accessories: M12 connector | 4-pin | socket



AA947
Wireable socket angled M12
Unit price: 6,05 €*



AA939
Wireable socket M12
Unit price: 6,05 €*



AA962
Wireable socket angled M12 IP69k **Unit price: 15,72 €***



AA960
Wireable socket straight M12 IP69k **Unit price: 15,72 €***

Accessories: PNP-NPN converter



AA034
PNP-NPN converter 5 m PUR M12 WHout **Unit price: 13,44 €***



AA033
PNP-NPN converter 5 m PUR M12 BKout **Unit price: 13,90 €***

Accessories: Y-distributor



AA046
Y-splitter cable M12/2xM12 **Unit price: 19,56 €***



AA922
Y distributor M12/2xM12 **Unit price: 12,87 €***