

KYTOLA® Model V Smart variable area flow meter with mA output is designed for reliable measuring and monitoring of liquid and gas flows.

It comes in a range of different options and offers a choice of end blocks – aluminium, stainless steel AISI 316 or polyamide.



- 4 – 20 mA output, 3-wire
- Easy compensation for external electromagnetic field effects
- USB-C port for parameter setting
- Easy configuration with VA Config application
- Sturdy construction
- Protected flow tube
- Scales for alternative liquids and gases

ISO 9001 ISO 14001



FLOW METER V Smart

FEATURES

- 4 – 20 mA output
- Alarm LEDs for flow alarm indication
- Ready for inductive flow alarm sensor
- Large selection of materials

TYPICAL APPLICATIONS

- Cooling water measurement
- Sealing water measurement
- Flush water applications
- Gas flow measurement

OPTIONS

- Separate inductive flow alarm sensor
- Constant flow regulator
- PES flow tube
- Viton or EPDM seals

Model	VDAS	VDHS	VDKS
End blocks	Aluminium	AISI 316	Nylon
Side plates	AISI 316	AISI 316	AISI 316
Max. pressure	440 psi (30 bar)	440 psi (30 bar)	290 psi (20 bar)
Max. temperature	175°F (80°C), *248°F (120°C)	175°F (80°C), *248°F (120°C)	175°F (80°C)
Weight, incl. mA transmitter	1.9 lbs (0.85 kg)	4.6 lbs (2.1 kg)	2.4 lbs (1.1 kg)
Valve housing	AISI 316	AISI 316	AISI 316
Valve spindle	AISI 316	AISI 316	AISI 316
Flow tube	Grilamid (PA-12) (*PES)		
Connections	G 1/2" or NPT 1/2"		
Float	AISI 316 or AISI 316/PTFE (depending on range)		
Seals	Nitrile (*Viton®, EPDM)		
Accuracy	±5% F.S. H ₂ O, 70°F (20°C)		

*Special construction on request

mA transmitter VA Smart	
Power supply	24 VDC / 0.1 A
Output	4 - 20 mA, 3-wire
Local alarm LEDs	Green (blinks): within set limits Yellow: high flow alarm Red: low flow alarm
Enclosure	Polyamide
Ambient temperature	32...+175°F (0...80°C)
Protection class	IP65
Cable length	6.5 ft (2 m)

VD S - M

End Block Material	
Aluminium (not for H ₂ O)	A
AISI 316	H
Nylon	K

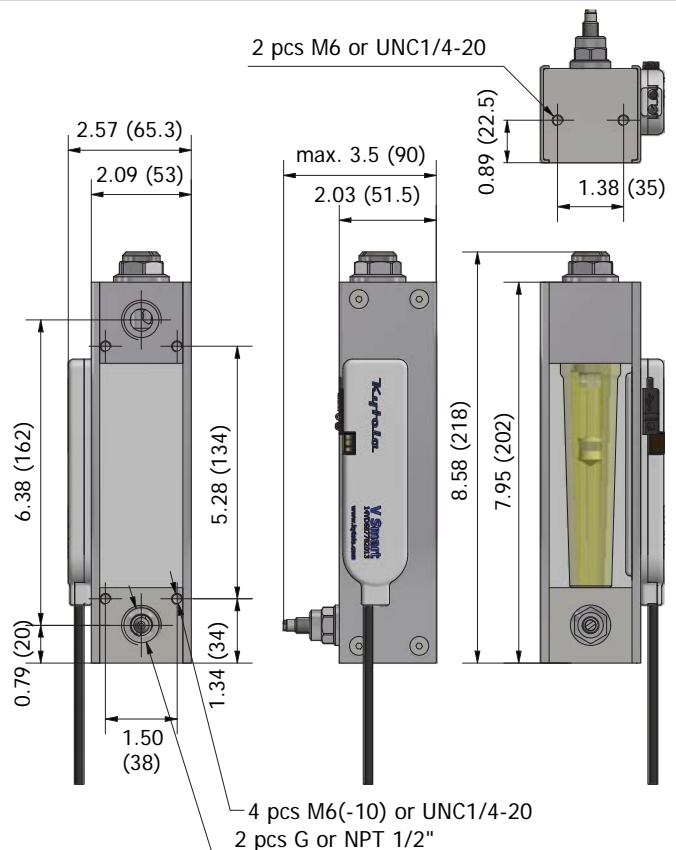
Flow Range H ₂ O USGPM	L/min	Flow Range Air SCFM	NL/min	
0.3 - 1.4	1.25 - 5.25	1.25 - 6.5	40 - 170	6M
0.6 - 2.2	2 - 9	2.5 - 11	80 - 280	3L
0.7 - 2.6	2.5 - 10	3 - 12	75 - 325	3M
0.75 - 4	3 - 16	4 - 20	100 - 600	4N
1 - 4.5	4 - 17	5 - 25	100 - 650	4D
1 - 6.0	4 - 22	5 - 45	100 - 1100	4E
1.5 - 8.5	7.5 - 32.5	-	-	4F

Scale	
H ₂ O L/min (20°C)	A
H ₂ O USGPM (70°F)	G
Air NL/min (20°C, 1.013 bar abs)	R
Air SCFM (70°F, 14.7 psia)	T
Relative 1-10	D

4 - 20 mA output

Features	
Ready for inductive flow alarm sensor	D
G 1/2" connections	blank
NPT 1/2" connections	N
Grilamid flow tube, nitrile seals	blank
PES flow tube, nitrile seals	V
PES flow tube, Viton® seals	W
Grilamid flow tube, Viton® seals	X
EPDM seals	Y
Hand knob in valve	H

Standard feature: leave blank
Special feature: choose character



Model	VEAS	VEHS	VEKS
End blocks	Aluminium	AISI 316	Nylon
Side plates	AISI 316	AISI 316	AISI 316
Max. pressure	30 bar	30 bar	20 bar
Max. temperature	175°F (80°C), *248°F (120°C)	175°F (80°C), *248°F (120°C)	175°F (80°C)
Weight, incl. mA transmitter	1.9 lbs (0.85 kg)	4.6 lbs (2.1 kg)	2.4 lbs (1.1 kg)
Valve housing	AISI 316	AISI 316	AISI 316
Valve spindle	AISI 316	AISI 316	AISI 316
Flow tube	Grilamid (PA-12) (*PES)		
Connections	G 1/2" or NPT 1/2"		
Float	AISI 316 or AISI 316/PTFE (depending on range)		
Seals	Nitrile (*Viton®, EPDM)		
Accuracy	±5% F.S. H ₂ O, 70°F (20°C)		

*Special construction on request

mA transmitter VA Smart	
Power supply	24 VDC / 0.1 A
Output	4 - 20 mA, 3-wire
Local alarm LEDs	Green (blinks): within set limits Yellow: high flow alarm Red: low flow alarm
Enclosure	Polyamide
Ambient temperature	32...+175°F (0...80°C)
Protection class	IP65
Cable length	6.5 ft (2 m)

VE S - M

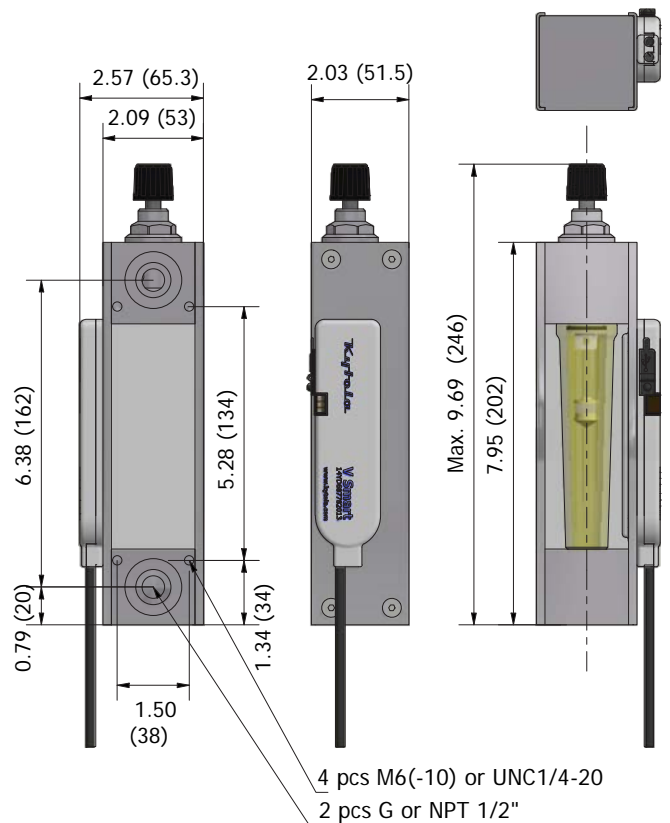
End Block Material	
Aluminium (not for H ₂ O)	A
AISI 316	H
Nylon	K

Flow Range H ₂ O USGPM	Flow Range H ₂ O L/min	Flow Range Air SCFM	Flow Range Air NL/min	
0.3 - 1.4	1.25 - 5.25	1.25 - 6.5	40 - 170	6M*
0.6 - 2.2	2 - 9	2.5 - 10	60 - 260	3L*
0.7 - 2.6	2.5 - 10	3 - 11	75 - 300	3M*
0.75 - 3.75	2 - 15	3 - 16	75 - 400	4N*
1 - 4.25	4 - 16	4 - 18	100 - 450	4D*
0.75 - 5.75	4 - 22	4 - 24	100 - 650	4E*
1.5 - 8.0	5 - 30	5 - 27.5	150 - 700	4F*

Scale	
H ₂ O L/min (20°C)	A
H ₂ O USGPM (70°F)	G
Air NL/min (20°C, 1.013 bar abs)	R
Air SCFM (70°F, 14.7 psia)	T
Relative 1-10	D

Features	
Ready for inductive flow alarm sensor	D
G 1/2" connections	blank
NPT 1/2" connections	N
Grilamid flow tube, nitrile seals	blank
PES flow tube, nitrile seals	V
PES flow tube, Viton® seals	W
Grilamid flow tube, Viton® seals	X
EPDM seals	Y

Standard feature: leave blank
Special feature: choose character



* Air flow ranges (70°F/14.7 psia, 20°C/1.013 bar abs) for calibration purposes only

Model	VLAS	VLHS	VLKS
End blocks	Aluminium	AISI 316	Nylon
Side plates	AISI 316	AISI 316	AISI 316
Max. pressure	30 bar	30 bar	20 bar
Max. temperature	175°F (80°C), *248°F (120°C)	175°F (80°C), *248°F (120°C)	175°F (80°C)
Weight, incl. mA transmitter	1.9 lbs (0.85 kg)	4.6 lbs (2.1 kg)	2.4 lbs (1.1 kg)
Flow tube	Grilamid (PA-12) (*PES)		
Connections	G 1/2" or NPT 1/2"		
Float	AISI 316 or AISI 316/PTFE (depending on range)		
Seals	Nitrile (*Viton®, EPDM)		
Accuracy	±5% F.S. H ₂ O, 70°F (20°C)		
			*Special construction on request

mA transmitter VA Smart	
Power supply	24 VDC / 0.1 A
Output	4 - 20 mA, 3-wire
Local alarm LEDs	Green (blinks): within set limits Yellow: high flow alarm Red: low flow alarm
Enclosure	Polyamide
Ambient temperature	32...+175°F (0...80°C)
Protection class	IP65
Cable length	6.5 ft (2 m)

VL S - M

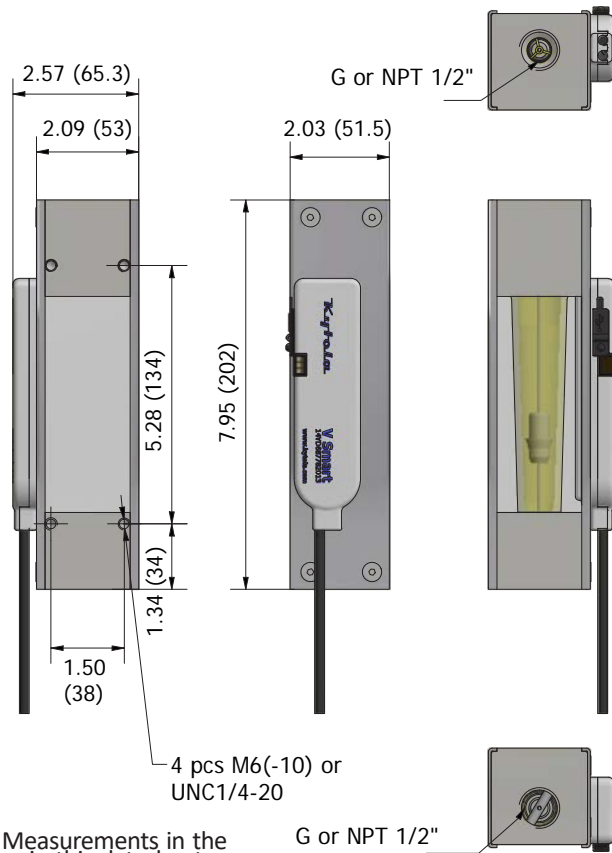
End Block Material	
Aluminium (not for H ₂ O)	A
AISI 316	H
Nylon	K

Flow Range H ₂ O		Flow Range Air		
USGPM	L/min	SCFM	NL/min	
0.3 - 1.5	1 - 6	1.5 - 7	40 - 190	6M
0.6 - 2.4	2 - 9	3 - 11	80 - 300	3L
0.6 - 2.6	3 - 10	3 - 12	75 - 325	3M
0.75 - 4.25	2 - 16	3 - 17	75 - 450	4N
1 - 4.5	3 - 18	4 - 20	100 - 500	4D
1 - 6.0	4 - 22	4 - 26	100 - 700	4E
1 - 8.0	5 - 30	5 - 35	150 - 900	4F

Scale	
H ₂ O L/min (20°C)	A
H ₂ O USGPM (70°F)	G
Air NL/min (20°C, 1.013 bar abs)	R
Air SCFM (70°F, 14.7 psia)	T
Relative 1-10	D
4 - 20 mA output	

Features	
Ready for inductive flow alarm sensor	D
G 1/2" connections	blank
NPT 1/2" connections	N
Grilamid flow tube, nitrile seals	blank
PES flow tube, nitrile seals	V
PES flow tube, Viton® seals	W
Grilamid flow tube, Viton® seals	X
EPDM seals	Y

Standard feature: leave blank
Special feature: choose character



NOTE: Measurements in the drawings in this datasheet are in inches (and millimeters) if not stated otherwise.