

## Technical Information

### VersaFlow TWM 9000 Electromagnetic Flow Converter Specification 34-VF-03-02, March 2022



#### The High-Performance Solution

The TWM 9000 is the only electromagnetic flow converter with diagnostics for the instrument and application. TWM 9000 is compatible with all electromagnetic flow sensors and is suitable for all applications.

#### Highlights

- Complete Diagnostics of the application and instrument
- Quick to install and easy to operate
- Excellent long-term stability
- Optimal zero-point stability independent from process properties
- One converter for all applications; helps facilitate procurement, engineering and inventory management.
- Exceeds requirements VDI / VDE/ WIB 2650 and NAMUR NE 107
- Integrated temperature and conductivity measurement
- Suitable for Custody Transfer

#### Industries

- Chemicals & Petrochemical
- Minerals, Metals & Mining
- Oil & Gas
- Pharmaceuticals
- Power Plants
- Pulp & Paper
- Water & Wastewater
- Machinery
- Power plants



Figure 1 - VersaFlow Electromagnetic Flow Converter



Figure 2 - VersaFlow converters are compatible with all sensors

All meters consist of a sensor and a converter. The converter may be mounted integral to the sensor, or remotely, either with a field mounting kit or a wall-mounted housing. See sensor specification for details.

#### Applications

- Products with low conductivity, high solid contents, or entrained air
- Inhomogeneous, abrasive, and corrosive products
- Quick media changes
- Abrupt changes of pH value
- Pulsating or turbulent flows
- Volume flow measurements
- Process control and monitoring
- Blending
- Batching

## Technical Data

### Model

**Table 1**

<b>C (compact) (Integrally Mounted)</b>	TWM 9000 C
<b>F (field), W (wall), R (19" rack) (Remote Mounted)</b>	TWM 9000 F, TWM 9000 W, TWM 9000 R

### Performance

**Table 2**

<b>Maximum measuring error</b>	See Accuracy Curves
<b>Repeatability</b>	±0.06%
<b>Full-scale range (see flow table)</b>	v = 0.3...12 m/s / 1...40 ft/s

### Conductivity

**Table 3**

<b>Min. process liquid conductivity (non-water)</b>	As low as 1 µS/cm (see flow sensor)
<b>Min. process liquid conductivity (water)</b>	20 µS/cm

### Content of solids

**Table 4**

<b>Maximum percentage (by volume)</b>	30%
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### Display

**Table 5**

<b>With local display (2 meas. pages: 1 status page, 1 graphical page)</b>	Standard LC display, backlit white. Size: 128 x 64 pixels, corresponds to 59 x 31 mm = 2.32" x 1.22"
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### Languages

**Table 6**

<b>English, French, German, Dutch, Polish, Portuguese, Danish, Spanish, Swedish, Slovenian, Italian</b>	Standard
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### Combinations

**Table 7**

<b>VersaFlow Mag 100 Specification 34-VF-03-08</b>	DN10...150 (3/8" to 6")
<b>VersaFlow Mag 1000 Specification 34-VF-03-16</b>	DN25...3000 (1" to 80")
<b>VersaFlow Mag 4000 Specification 34-VF-03-01</b>	DN25...3000 (1" to 24")
<b>VersaFlow Mag 3000 Specification 34-VF-03-23</b>	DN2.5...150 (1/10" to 6")

**Communication****Table 8**

<b>Current, pulse &amp; status output, frequency output, limit switch</b>	Standard
<b>HART communication, control input, 3 counters</b>	Standard
<b>Ex-i</b>	Option
<b>Foundation Fieldbus</b>	Option
<b>Modbus</b>	Option

**Verification****Table 9**

<b>Integrated verification, diagnostics:</b>	Standard
<b>- instrument / process / measurement</b>	Standard
<b>- empty pipe indication / stabilization</b>	Standard

**Custody Transfer****Table 10**

<b>Without</b>	Standard
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**Power Supply****Table 11**

<b>Voltage</b>	<b>Power Consumption</b>	<b>Standard/Option</b>
<b>100...230 VAC (-15% / +10%), 50/60 Hz</b>	22 VA	Standard
<b>24 VDC (-55% / +30%)</b>	12 W	Option
<b>24 VAC/DC (AC: -15% / +10%; DC: -25% / +30%)</b>	AC 22 VA; DC: 12 W	Option

**Approval****Table 12**

<b>Non-Ex</b>	Standard
<b>EEx - zone 1</b>	Option <sup>2</sup>
<b>FM - Class I DIV 2</b>	Option <sup>2</sup>
<b>CSA - Class I DIV 2</b>	Option <sup>2</sup>

<sup>2</sup> only for C and F version**Protection category (according to IEC 529 / EN 60 529)****Table 13**

<b>C (compact)</b>	IP 66 / 67 (eq. to NEMA 4/4X/6)
<b>F (remote)</b>	IP 66 / 67 (eq. to NEMA 4/4X/6)
<b>W (wall)</b>	IP 65 (eq. to NEMA 4/4X)
<b>R (19" rack)</b>	IP 20 (eq. to NEMA 1)

**Temperature****Table 14**

<b>Process temperature</b>	See flow sensor
<b>Ambient temperature</b>	-40...+65°C / -40...+149°F
<b>Storage temperature</b>	-50...+70°C / -58...+158°F

**Signal Cable****Table 15**

<b>Separate - DS (dep. on measuring sensor and conductivity)</b>	5...600 m / 15...1950 ft
<b>Separate - BTS (dep. on measuring sensor and conductivity)</b>	5...600 m / 15...1950 ft
<b>Separate - LIYCY (Class 1 Div. 2 only) (dep. on measuring sensor and conductivity)</b>	5...100 m / 15...330 ft

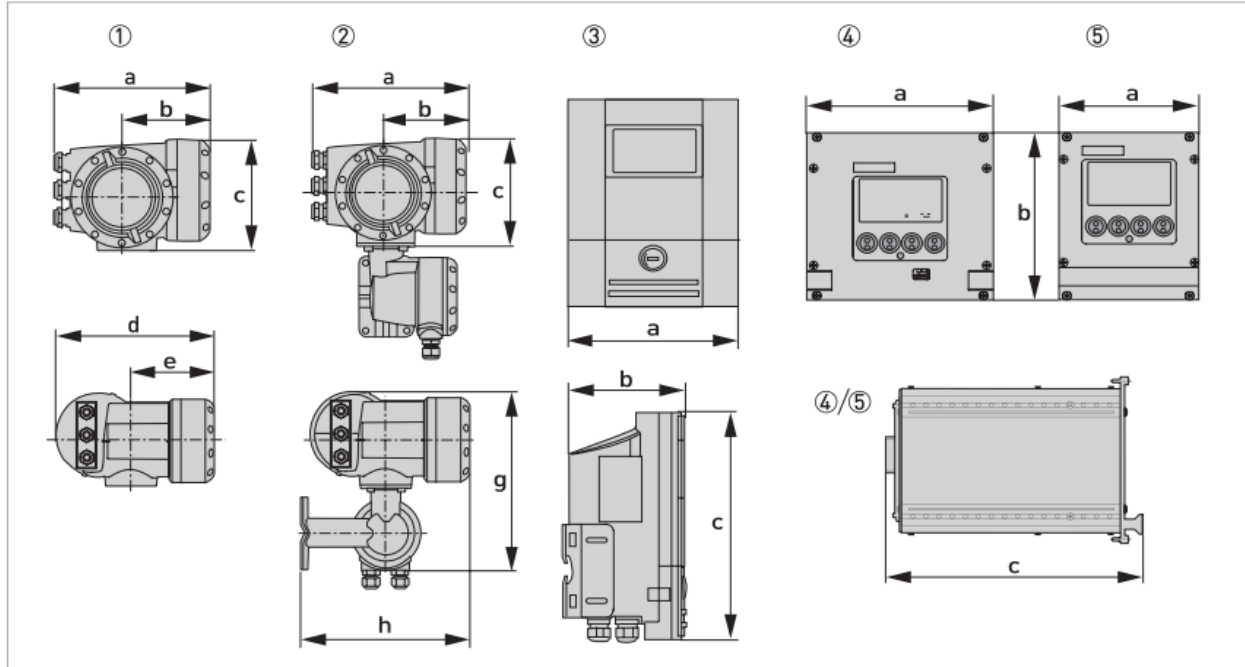
**Cable Connection****Table 16**

<b>M20 x 1.5</b>	Standard
<b>½" NPT</b>	Option
<b>PF ½</b>	Option

**Materials Used****Table 17**

<b>Die-cast aluminum powder coated C and F version only</b>	Standard
<b>Polyamide - polycarbonate; W version only</b>	Standard
<b>Aluminium and Aluminium sheet, partially polyester-coated; R version only</b>	Standard
<b>Stainless steel 316 L (1.4408); C and F version only</b>	Optional

**Dimensions and Weights**



**Figure 3 - Dimensions and Weights**

1. Compact version (TWM 9000 C)
2. Field housing (TWM 9000 F) - remote version
3. Wall-mounted housing (TWM 9000 W) - remote version
4. 19" rack (TWM 9000 R) - remote version
5. 19" rack-mounted housing 21 TE (R) - remote version

**Dimensions and Weights in mm and kg**

**Table 18**

Version	Dimensions mm [inches]							Weight's kg [lbs]
	a	b	c	d	e	g	h	
<b>TWM 9000 C</b>	202 (7.95)	120 (4.75)	155 (6.10)	260 (10.20)	137 (5.40)	-	-	4.2 (9.30)
<b>TWM 9000 F</b>	202 (7.95)	120 (4.75)	155 (6.10)	-	-	295.8 (11.60)	277 (10.90)	5.7 (12.60)
<b>TWM 9000 W</b>	198 (7.80)	138 (5.40)	299 (11.80)	-	-	-	-	2.4 (5.30)
<b>TWM 9000 R</b>	142 (5.60)	129 (5.08)	195 (7.68)	-	-	295.8 (11.65)	277 (10.90)	1.2 (2.65)
<b>TWM 9000 R</b>	107 (4.21)	129 (5.08)	190 (7.48)	-	-	-	-	0.98 (2.16)

## I/O Specifications

Table 19

Overall Functionality	
<b>Function</b>	Continuous measurement of actual volume flow rate, flow velocity, conductivity, mass flow (at const. density), coil temperature. Integrated batch controller
	Bidirectional flow measurement and totalisation
	Flow direction identified via status or current output
	Diagnostics: Accuracy, linearity, electrode contamination, noise, flow profile, field current, coil resistance and temperature, empty or non-full pipe + derived functions

## Current Output

Table 20

Function	Measurement of volume and mass (at constant density), HART® communication		
Settings	<b>With HART®</b>		<b>Without HART</b>
	Q = 0%: 4...15 mA		Q = 0%: 0...15 mA
	Q = 100%: 10...21.5 mA		Q = 100%: 10...21.5 mA
	Error identification: 3.5...22 mA		Error identification: 0...22 mA
Operating data	<b>Basic I/Os</b>	<b>Modular I/Os</b>	<b>EEx-i</b>
Active	U <sub>int,nom</sub> = 24 VDC I ≤ 22 mA R <sub>L</sub> ≤ 1 kΩ		U <sub>int,nom</sub> = 20 VDC I ≤ 22 mA R <sub>L</sub> ≤ 450 Ω
			U <sub>0</sub> = 21 V I <sub>0</sub> = 90mA P <sub>0</sub> = 0.5W C <sub>0</sub> = 90 nF / L <sub>0</sub> = 2 mH C <sub>0</sub> = 110 nF / L <sub>0</sub> = 0.5mH
Passive	U <sub>ext</sub> ≤ 32 VDC I ≤ 22 mA U <sub>0</sub> ≥ 1.8 V at I = 22 mA		U <sub>ext</sub> -≤32 VDC I ≤ 22 mA U <sub>0</sub> ≥ 4 V at I = 22 mA
			U <sub>i</sub> = 30 V I <sub>i</sub> = 100 mA P <sub>i</sub> = 1W C <sub>i</sub> = 10 nF L <sub>i</sub> ~ 0 mH

## Pulse or Frequency Output

Table 21

Function	Can be set as a pulse output (e.g.- for volume or mass counting) or frequency output		
Settings	For Q = 100%: 0.01...10000 pulses per second or pulses per unit volume		
	Pulse width: setting automatic, symmetric, or fixed (0.05...2000 ms)		
Operating data	<b>Basic I/Os</b>	<b>Modular I/Os</b>	<b>EEx-i I/Os</b>
Active	-		U <sub>nom</sub> = 24 VDC
			f <sub>max</sub> ≤100 Hz: I ≤20 mA open: I ≤0.05 mA closed: U <sub>0,nom</sub> = 24 V at I = 20 mA
			100 Hz < f <sub>max</sub> ≤10 kHz: I ≤20 mA open: I ≤0.05 mA closed: U <sub>0,nom</sub> = 22.5 V at I = 1 mA U <sub>0,nom</sub> = 21.5 V at I = 10mA U <sub>0,nom</sub> = 19 V at I = 20 mA
Passive	U <sub>ext</sub> ≤32 VDC		

	$f_{max} \leq 100$ Hz: $I \leq 100$ mA open: $I \leq 0.05$ mA at $U_{ext} = 32$ VDC closed: $U_0 \leq 0.2$ V at $I = 10$ mA $U_0 \leq 2$ V at $I = 100$ mA	-	
	$100$ Hz < $f_{max} \leq 10$ kHz: $I \leq 20$ mA open: $I \leq 0.05$ mA at $U_{ext} = 32$ VDC closed: $U_0 \leq 1.5$ V at $I = 1$ mA $U_0 \leq 2.5$ V at $I = 10$ mA $U_0 \leq 5.0$ V at $I = 20$ mA	-	
NAMUR	-	Passive to EN 60947-5-6 open: $I_{nom} = 0.6$ mA closed: $I_{nom} = 3.8$ mA	Passive to EN 60947-5-6 open: $I_{nom} = 0.43$ mA closed: $I_{nom} = 4.5$ mA $U_i = 30$ V $I_i = 100$ mA $P_i = 1$ W $C_i = 10$ nF $L_i \sim 0$ mH

### Status Output/Limit Switch

**Table 22**

<b>Function and Settings</b>	Settable as automatic measuring range change, indicator for direction of flow, overflow, error, operating point or empty pipe detection		
	Valve control with activated dosing function		
	Status and/or control: ON or OFF		
<b>Operating data</b>	<b>Basic I/Os</b>	<b>Modular I/Os</b>	<b>EEx-i</b>
Active	-	$U_{int} = 24$ VDC $I \leq 20$ mA open: $I \leq 0.05$ mA closed: $U_{0,nom} = 24$ V at $I = 20$ mA	-
Passive	$U_{ext} \leq 32$ VDC $I \leq 100$ mA open: $I \leq 0.05$ mA at $U_{ext} = 32$ VDC closed: $U_0 \leq 0.2$ V at $I = 10$ mA $U_0 \leq 2$ V at $I = 100$ mA	$U_{ext} = 32$ VDC $I \leq 100$ mA $RL \leq 47$ k $\Omega$ open: $I \leq 0.05$ mA at $U_{ext} = 32$ VDC closed: $U_0 \leq 0.2$ V at $I = 10$ mA $U_0 \leq 2$ V at $I = 100$ mA	-
NAMUR	-	Passive to EN 60947-5-6 open: $I_{nom} = 0.6$ mA closed: $I_{nom} = 3.8$ mA	Passive to EN 60947-5-6 open: $I_{nom} = 0.43$ mA closed: $I_{nom} = 4.5$ mA $U_i = 30$ V $I_i = 100$ mA $P_i = 1$ W $C_i = 10$ nF $L_i = 0$ mH

## Control Input

Table 23

Function	Hold value of the outputs (e.g. for cleaning counter and error reset, range change). Start of dosing when dosing function is activated.		
	Basic I/Os	Modular I/Os	EEx-i
Operating data			
Active	-	$U_{int} = 24 \text{ VDC}$ Terminals open: $U_{0,nom} = 22 \text{ V}$ Terminals bridged: $I_{nom} = 4 \text{ mA}$ On: $U_0 \geq 12 \text{ V}$ with $I_{nom} = 1.9 \text{ mA}$ Off: $U_0 \leq 10 \text{ V}$ with $I_{nom} = 1.9 \text{ mA}$	-
Passive	$8 \text{ V} \leq U_{ext} \leq 32 \text{ VDC}$ $I_{nom} = 6.5 \text{ mA}$ at $U_{ext} = 24 \text{ VDC}$ $I_{nom} = 8.2 \text{ mA}$ at $U_{ext} = 32 \text{ VDC}$ On: $U_0 \geq 8 \text{ V}$ with $I_{nom} = 2.8 \text{ mA}$ Off: $U_0 \leq 2.5 \text{ V}$ with $I_{nom} = 0.4 \text{ mA}$	$3 \text{ V} \leq U_{ext} \leq 32 \text{ VDC}$ $I \leq 9.5 \text{ mA}$ at $U_{ext} = 24 \text{ V}$ $I \leq 9.5 \text{ mA}$ at $U_{ext} = 32 \text{ V}$ On: $U_0 \geq 3 \text{ V}$ with $I_{nom} = 1.9 \text{ mA}$ Off: $U_0 \leq 2.5 \text{ V}$ with $I_{nom} = 1.9 \text{ mA}$	$U_{ext} \leq 32 \text{ VDC}$ $I \leq 6 \text{ mA}$ at $U_{ext} = 24 \text{ V}$ $I \leq 6.6 \text{ mA}$ at $U_{ext} = 32 \text{ V}$ On: $U_0 \geq 5.5 \text{ V}$ or $I \geq 4 \text{ mA}$ Off: $U_0 \leq 3.5 \text{ V}$ or $I \leq 0.5 \text{ mA}$ $U_i = 30 \text{ V}$ $I_i = 100 \text{ mA}$ $P_i = 1 \text{ W}$ $C_i = 10 \text{ nF}$ $L_i = 0 \text{ mH}$
NAMUR	-	Active to EN 60947-5-6 Terminals open: $U_{0,nom} = 8.7 \text{ V}$ Terminals bridged: $I_{nom} = 7.8 \text{ mA}$ On/off: $U_{0,nom} = 6.3 \text{ V}$ with $I_{nom} = 1.9 \text{ mA}$ Identification for open terminals: $U_0 \geq 8.1 \text{ V}$ with $I \leq 0.1 \text{ mA}$ Identification for bridged terminals: $U_0 \leq 1.2 \text{ V}$ with $I \geq 6.7 \text{ mA}$	-

## Low Flow Cut-Off

Table 24

On	0...±9.999 m/s; 0...20.0%, settable in 0.1% steps, separately for each current and pulse output
Off	0...±9.999 m/s; 0...19.0%, settable in 0.1% steps, separately for each current and pulse output

## Time Constant

Table 25

Function	Can be set together for all flow indicators and outputs, or separately for: current, pulse and frequency output, and for limit switches and the 3 internal counters
Time setting	0...100 seconds, settable in 0.1 second steps



**I/O-Module Combination Possibilities**

**Table 26**

<b>Communication</b>	Basic I/O	Ex-i I/O	Modular I/O
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**Current Output**

**Table 27**

<b>Active / passive</b>			
<b>HART</b>			

**Pulse and Status Output**

**Table 28**

<b>Active</b>			
<b>Passive</b>			
<b>Namur (acc. to EN 60947-5-6)</b>			

**Control Input**

**Table 29**

<b>Active</b>			
<b>Passive</b>			
<b>Namur (acc. to EN 60947-5-6)</b>			

**Foundation Fieldbus**

**Table 30**

<b>Foundation Fieldbus</b>			
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**Modbus**

**Table 31**

<b>RS 485 Modbus</b>			
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**Protection**

**Table 32**

<b>Ex-d / e</b>			
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standard
  optional
  on request

**Notes**

- Ex-i I/O: up to 1 additional in-/output module possible (see I/O-module combinations)
- Modular I/O: up to 2 additional in-/output module possible (see I/O-module combinations)

**I/O Modules****Table 33**

	I/O		1st module		2nd module	
1	Basic	0	no module possible	0	no module possible	
2	Ex-i (Ia + Pp)	1	Ex-i (Ia + Pp/Cp)			
3	Ex-i (Ip + Pp)	2	Ex-i (Ip + Pp/Cp)			
4	Modular (Ia + Pa)	8	no module	8	no module	
6	Modular (Ia + Pp)	A	Ia	A	Ia	Ia = current output - active
7	Modular (Ia + Pn)	B	Ip	B	Ip	Ip = current output - passive
8	Modular (Ip + Pa)	C	Pa/Sa	C	Pa/Sa	Pa/Sa = pulse/status output - active, high current
B	Modular (Ip + Pp)	E	Pp/Sp	E	Pp/Sp	Pp/Sp = pulse/status output - passive, high current
C	Modular (Ip + Pn)	F	Pn/Sn	F	Pn/Sn	Pn/Sn = pulse/status output - passive, Namur
E	Foundation Fieldbus	H	Cn	H	Cn	Cn = control input - active, Namur
G	RS485 Modbus					
H	RS485 Modbus with interactive termination					

The TWM 9000 with standard basic I/O covers almost all applications, having 4 I/Os:

- active/passive current output (+HART)
- passive pulse/status output
- passive status output
- passive status output / control input

The I/O-module combination is thus 1-0-0 (see above).

The TWM 9000 with modular I/O can be tailor-made to any application:

- Suppose you require a converter with passive pulse output and 3 passive current outputs. The I/O-module combination then becomes B-B-B.
- Suppose you require a converter with 2 active pulse/status outputs. The I/O-module combination then becomes either 4-C-8 or 8-C-8 (depending on whether active or passive current output is required). The latter '8' indicates that 1 additional module can be added in the future.

For I/O-module combinations, not described in the overview on the right, please consult HONEYWELL.

**Example for Combination of I/O's**

Basic I/O		
	2	3
1	0	0

**Table 34**

Ex- I/O		
1	2	3
2	0	0
	1	
	2	

3	0	0
	1	
	2	

D	0	0
	1	
	2	

E	0	0
	1	
	2	

Table 35

Modular I/O			Modular I/O			Modular I/O			Modular I/O				
Comm	1st	2nd	Comm	1st	2nd	Comm	1st	2nd	Comm	1st	2nd		
4	8	8	6	8	8	7	8	8	8	8	8		
	A	8		A	8		A	8		A	8	B	8
		A			A			A			A		B
		C			E			F			C		
		G			K			H			G		
		8			8			8			8		8
	C	8		E	8		F	8		C	8		
		C			E			F			C		
		G			K			H			G		
	G	8		K	8		H	8		G	8		
		8			8			8			8		
		G			K			H			G		

Comm	1st	2nd	Comm	1st	2nd		
B	8	8	C	8	8		
	B	8		B	8	B	
		B			B		F
		E			H		
		K			8		
		8			8		
	E	8		F	8	F	
		E			F		
		K			H		
	K	8		H	8	H	
		K			H		

Fieldbus I/O			I/O			
E	8	8	G	8	8	
	A	8		A	8	A
		A			A	
		C			C	
		K			K	
		8			8	
	C	8		C	8	C
		C			C	
		K			K	
	K	8		K	8	K
		K			K	

**Full-Scale Flowrates**Flowrates in m/s and m<sup>3</sup>/h

Table 36

v [m/s]	Q100% in m <sup>3</sup> /h		
	0.3	3	12
DN [mm]	minimum	nominal	maximum
2.5	0.01	0.05	0.21
4	0.01	0.14	0.54
6	0.03	0.31	1.22
10	0.08	0.85	3.39
15	0.19	1.91	7.63
20	0.34	3.39	13.57
25	0.53	5.30	21.21
32	0.87	8.69	34.74
40	1.36	13.57	54.29
50	2.12	21.21	84.82
65	3.58	35.84	143.35
80	5.43	54.29	217.15
100	8.48	84.82	339.29
125	13.25	132.54	530.15
150	19.09	190.85	763.40
200	33.93	339.30	1357.20
250	53.01	530.13	2120.52
300	76.34	763.41	3053.64
350	103.91	1039.08	4156.32
400	135.72	1357.17	5428.68
450	171.77	1717.65	6870.60
500	212.06	2120.58	8482.32
600	305.37	3053.70	12214.80
700	415.62	4156.20	16624.80
800	542.88	5428.80	21715.20
900	687.06	6870.60	27482.40
1000	848.22	8482.20	33928.80
1200	1221.45	12214.50	48858.00
1400	1433.52	14335.20	57340.80
1600	2171.46	21714.60	86858.40
1800	2748.27	27482.70	109930.80
2000	3393.00	33930.00	135720.00
2200	4105.50	41055.00	164220.00
2400	4885.80	48858.00	195432.00
2600	5733.90	57339.00	229356.00
2800	6650.10	66501.00	266004.00
3000	7634.10	76341.00	305364.00

Flowrates in ft/s and gallons/min

Table 37

v [ft/s]	Q100% in US gallons/min		
	1	10	40
DN [inch]	minimum	nominal	maximum
1/10	0.02	0.23	0.93
1/8	0.06	0.60	2.39
1/4	0.13	1.34	5.38
3/8	0.37	3.73	14.94
1/2	0.84	8.40	33.61
3/4	1.49	14.94	59.76
1	2.33	23.34	93.36
1.25	3.82	38.24	152.97
1.5	5.98	59.75	239.02
2	9.34	93.37	373.47
2.5	15.78	159.79	631.16
3	23.90	239.02	956.09
4	37.35	373.46	1493.84
5	58.35	583.24	2334.17
6	84.03	840.29	3361.17
8	149.39	1493.29	5975.57
10	233.41	2334.09	9336.37
12	336.12	3361.19	13444.77
14	457.59	4574.93	18299.73
16	597.54	5975.44	23901.76
18	756.26	7562.58	30250.34
20	933.86	9336.63	37346.53
24	1344.50	13445.04	53780.15
28	1829.92	18299.20	73196.79
32	2390.23	23902.29	95609.15
36	3025.03	30250.34	121001.37
40	3734.50	37346.00	149384.01
48	5377.88	53778.83	215115.30
56	6311.60	63115.99	252463.94
64	9560.65	95606.51	382426.03
72	12100.27	121002.69	484010.75
80	14938.92	149389.29	597557.18
88	18075.97	180759.73	723038.90
96	21511.53	215115.30	860461.20
104	25245.60	252456.02	1009824.08
112	29279.51	292795.09	1171180.37
120	33611.93	336119.31	1344477.23

## Accuracy

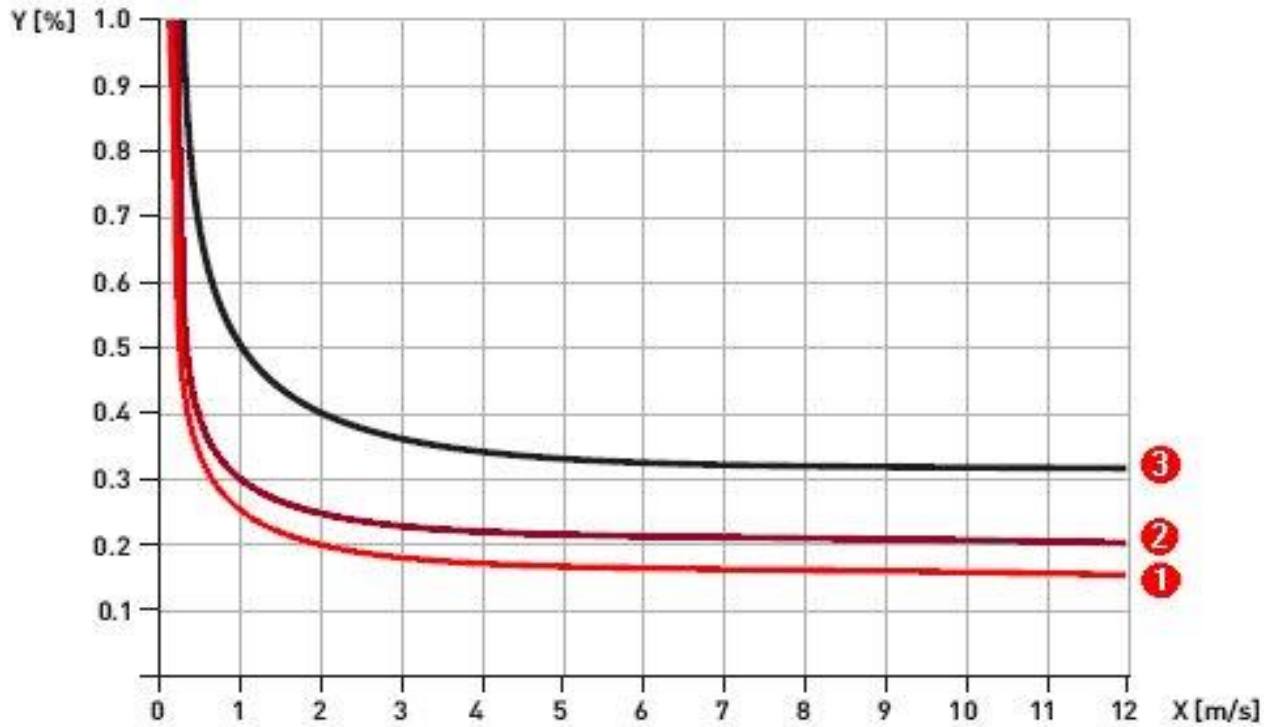


Figure 4 – Accuracy

X [m/s] – Flow velocity

Y [%] – Deviation of actual measurement value

### Reference conditions

Medium: Water

Temperature: 20°C / 68°F

Pressure: 1 bar / 14.5 psi

Inlet:  $\geq 5DN$

### Accuracy

Table 38

VersaFlow version	DN [mm]	DN [inches]	Accuracy	Curve
Mag 1000, 3000, 4000	10...1600	3/8...80	0.2% of MV + 1 mm/s	(2)
Mag 100	10...150	3/8...6	0.3% of MV + 2 mm/s	(3)
Mag 1000	>1600	>64	0.3% of MV + 2 mm/s	(3)
Mag 3000,	<10	<3/8	0.3% of MV + 2 mm/s	(3)

## Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

### ASIA PACIFIC

Honeywell Process Solutions,  
Phone: + 800 12026455 or  
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#### China – PRC - Shanghai

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#### Web

Knowledge Base search  
engine <http://bit.ly/2N5Vldi>

### AMERICAS

Honeywell Process Solutions,  
Phone: (TAC) (800) 423-9883  
or (215) 641-3610  
(Sales) 1-800-343-0228

#### Email: (Sales)

[FP-Sales-Apps@Honeywell.com](mailto:FP-Sales-Apps@Honeywell.com)

or

(TAC)

[hfs-tac-support@honeywell.com](mailto:hfs-tac-support@honeywell.com)

#### Web

Knowledge Base search  
engine <http://bit.ly/2N5Vldi>

*Specifications are subject to change without notice.*

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#### For more information

To learn more about VersaFlow,  
visit <https://process.honeywell.com>  
Or contact your Honeywell Account Manager

#### Process Solutions

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