

Selection guide

Magflow flowmeters



Model	9500A IMT30A/IMT31A/IMT33A	9600A IMT30A/IMT31A/IMT33A	9700A IMT30A/IMT31A/IMT33A	8500A IMT30A/IMT31A/IMT33A
Applications	Water & Wastewater, Power	Sanitary flowmeter used for Food & Beverage, Pharmaceutical, Cosmetics	Slurries and pastes with high solids content, abrasive and aggressive products, clean liquids	Volumetric dosing of additives, chemical injection, acids, alkaline, abrasive slurries, aggressive media
Size	1" to 80"; DN25 to DN2000	1/10" to 6"; DN2.5 to DN150	3/8" to 80" (DN10 - DN2000)	1/10" to 4" (DN2.5 - DN100)
Accuracy	0.5% ±1 mm/s IMT30A down to 0.3% ±1 mm/s... IMT31A 0.2% ±1 mm/s... IMT33A	0.5% ±1 mm/s IMT30A down to 0.3% ±1 mm/s... IMT31A 0.2% ±1 mm/s... IMT33A	up to ±0.2% of mv +1 mm/s IMT33A up to ±0.3% of mv +1 mm/s IMT31A up to ±0.5% of mv +1 mm/s IMT30A	up to ±0.15% of mv +1 mm/s IMT33A up to ±0.3% of mv +1 mm/s IMT31A up to ±0.5% of mv +1 mm/s IMT30A
Liners	Hard rubber	Reinforced PFA	PFA, PTFE, ETFE, PU Hard/soft rubber	Ceramic
Electrode material	Hastelloy C, stainless steel, titanium	Hastelloy C and B2, stainless steel, titanium, tantalum, platinum, tantalum-tungsten	Hastelloy, stainless steel, titanium, tantalum, low-noise electrodes, platinum	Fused in-place Cermet electrode or platinum button with platinum wire
Fittings	EN 1092-1, JIS, ASME B16.5, AWWA	DIN 11850/11866, DIN 11851, DIN 11864-2A, DIN 32676, ISO 2037, ISO 2852, SMS 1145, Tri-Clamp	EN 1092-1, ASME B16.5, JIS	EN 1092-1, ASME B16.5, JIS
Temperature range	-5 °C to +80 °C/+23 °F to +176 °F	-40 °C to +140 °C/-40 °F to +284 °F	-40 °C to +180 °C/-40 °F to +356 °F	-40 °C to +180 °C/-40 °F to +356 °F
Minimum conductivity	5 µS/cm (water ≥ 20 µS/cm)	5 µS/cm	≥ 1 µS/cm	≥ 1 µS/cm
Communication protocols	4-20 mA, HART, FF ¹ , Modbus	4-20 mA, HART, FF ¹ , Modbus	4-20 mA, HART, FF ¹ , Modbus	4-20 mA, HART, FF ¹ , Modbus
Certifications and approvals	ATEX, IECEx, FM, CSA, NEPSI, KTW, ACS, NSF 61, Drinking Water Approvals	CSA, 3-A Sanitary Approval, FDA, EHEDG	CE, ATEX, FM, CSA, IECEx, NEPSI	CE, ATEX, FM, CSA, IECEx, NEPSI, FDA
Specific features	Virtual Grounding option Continuous device and process diagnostics	Continuous device and process diagnostics	Virtual grounding option, continuous device and process diagnostics, low-noise electrode	FDA approved, vacuum resistant, continuous device and process diagnostics, virtual grounding option
Specifications	9500A PSS 1-6H4 A IMT30A PSS 1-6H3 A IMT31A PSS 1-6H2 A IMT33A PSS 1-6H1 A	9600A PSS 1-6H5 A IMT30A PSS 1-6H3 A IMT31A PSS 1-6H2 A IMT33A PSS 1-6H1 A	9700A PSS_1-6H6 A IMT30A PSS_1-6H3 A IMT31A PSS_1-6H2 A IMT33A PSS_1-6H1 A	8500A PSS_1-6H8 A IMT30A PSS_1-6H3 A IMT31A PSS_1-6H2 A IMT33A PSS_1-6H1 A

¹ FF = FOUNDATION Fieldbus

Selection guide

Magflow flowmeters (continued)



Model	8400A IMT30A/IMT31A/IMT33A	6500W IMT65W
Applications	Mixing, batching, dosing, filtration, pump control; water flow monitoring, circulation and treatment	District metering of potable water and custody transfer measurement
Size	3/8" to 6" (DN10 - DN150)	1" to 24" (DN25 - DN600)
Accuracy	up to $\pm 0.3\%$ of mv +2 mm/s IMT33A up to $\pm 0.4\%$ of mv +1 mm/s IMT31A up to $\pm 0.5\%$ of mv +1 mm/s IMT30A	up to $\pm 0.2\%$ of mv + mm/s IMT65W
Liners	PFA	Rilsan® thermoplastic polyamide
Electrode material	Hastelloy	Hastelloy, Stainless Steel
Fittings	EN 1092-1, ASME B16.5, JIS	EN 1092-1, ASME B16.5, JIS, Gas Threaded Connection
Temperature range	-25 °C to +120 °C/-13 °F to +248 °F	-5 °C to +70 °C/+23 °F to +158 °F
Minimum conductivity	$\geq 5 \mu\text{S/cm}$	$\geq 20 \mu\text{S/cm}$
Communication protocols	4-20 mA, HART, FF, Modbus	Pulse, Modbus
Certifications and approvals	ATEX Zone 2 max.	Custody transfer: OIMLR49 and MID Annex III (MI-001); Drinking water approvals: ACS, DVGW, NSF, UBA and WRAS
Specific features	Vacuum resistant, continuous device and process diagnostics, virtual grounding option	Battery-powered water meter with optional data logger for wireless operation, multi-power unit for mains power connection and battery back up
Specifications*	8400A PSS_1-6H7 A IMT30A PSS_1-6H3 A IMT31A PSS_1-6H2 A IMT33A PSS_1-6H1 A	6500W/IMT65W PSS_1-610H A

*Please use this term in our search window on www.schneider-electric.com to access more product details