



Smart Two-wire Electromagnetic Flowmeter

MagneW™ Two-wire PLUS+

Two is more than four!



- 1 Four-wire functionality with Two-wire simplicity.
- 2 More performance at lower installation cost.
- 3 More versatile. Integrated pulse output.
- 4 More flexible. DE/HART® Bilingual.

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Versatile Two-wire Magnetic Flowmeter slashes installation costs

Measurement instrumentation has evolved from "end of the line" hardware to play an integral role in the overall control strategy. But improved operation efficiency can take a toll on the bottom line. Whether upgrading to improve existing two-wire flow instrument performance or designing a new control strategy, long four-wire cable runs significantly escalate installation and maintenance expenses.

The Azbil Corporation's MagneW Two-wire PLUS+ magnetic flowmeter series consistently delivers reliable, accurate performance at a fraction of traditional four-wire installation costs. Now you can cost effectively replace alternate technology two-wire flow measurement instruments to improve performance and reduce maintenance.

Since the output loop provides the low voltage operating power, only one single pair of wires is needed greatly reducing costly cable runs and simplifying overall installation and maintenance.

Although two-wire flowmeter installation cost is generally 4 to 5 times less than four-wire models, this is only one of the benefits of the Two-wire PLUS+ series.



Application

MagneW Two-wire PLUS+ is well suited for processes in:

- biochemistry
- chemical
- food and beverage
- metal and steel
- municipal utilities
- pharmaceutical
- pulp and paper

Reliable, repeatable measurement

Reference accuracy - Dependable flow measurement is essential to product quality and productivity. The MagneW Two-wire PLUS+ series typically provides $\pm 0.5\%$ of rate at normal flow rates.

Noise susceptibility causing inconsistent and erroneous output has been an issue with some two-wire flowmeters. The innovative, patented excitation method reduces noise susceptibility enabling the MagneW Two-wire PLUS+ series to deliver accurate and reliable data.

Easy operation converter

Four converter switches make data setting fast and easy. Communications is also simple, with both HART and DE communications available. The converter display shows three values simultaneously:

- Percent flow rate (%)
- Actual flow rate (m^3/h , GPM)
- Totalized value

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Specification

Type	Integral / Remote
Loop power	15.6 to 42V DC
Structure	IEC IP67, NEMA 4X
Output	4 to 20 mA DC, Pulse, Contact, DE
Communication	DE / HART®
Accuracy	$\pm 0.5\%$ of rate
Diameter	2.5, 5, 10, 15, 25, 40, 50, 65, 80, 100, 150, 200 mm (0.1, 0.2, 3/8, 0.5, 1, 1.5, 2, 2.5, 3, 4, 6, 8 inches)
Approvals	FM/CSA Explosion-proof (Integral type only) FM/CSA Nonincendive (Integral and Remote type) NEPSI Increased safety and Dust ignition proof (Integral type only) ATEX Type n (Integral type only)
Pipe connections	Flange/Wafer ANSI 150/300 JIS 10/20/30K, DIN PN 10/16/25
Lining	PFA
Fluid temp.	-20 to +130 °C (-4 to +266 °F)
Fluid pressure	-0.098 to 2.94 MPa (-14.2 to 426 psi)
Ambient temp.	-20 to +60 °C (-4 to +140 °F)
Ambient humidity	10 to 90% RH

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