Smart Two-wire Electromagnetic Flowmeter
MagneW Neo PLUS
Two is more than four!

1. Four-wire functionality with Two-wire simplicity.
Smart Two-wire Electromagnetic Flowmeter
MagneW Neo PLUS

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 MagneW Two-wire PLUS series.

Application

MagneW Two-wire PLUS is well suited for processes in:
- biochemistry
- food and beverage
- municipal utilities
- pulp and paper
- chemical
- metal and steel
- pharmaceutical

Reliable, repeatable measurement

Reference accuracy - Dependable flow measurement is essential to product quality and productivity. The MagneW Two-wire PLUS series typically provides ± 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 (m³/h, GPM)
- Totalized value

Specification

<table>
<thead>
<tr>
<th>Type</th>
<th>Integral / Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loop power</td>
<td>15.5 to 42V DC</td>
</tr>
<tr>
<td>Structure</td>
<td>IEC IP67, NEMA 4X</td>
</tr>
<tr>
<td>Output</td>
<td>4 to 20 mA DC, Pulse, Contact, DE</td>
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<tr>
<td>Communication</td>
<td>DE / HART®</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5% of rate</td>
</tr>
<tr>
<td>Diameter</td>
<td>2.5, 5, 10, 15, 25, 40, 50, 65, 80, 100, 150, 200 mm (0.10, 0.20, 0.40, 0.60, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0 inches)</td>
</tr>
<tr>
<td>Approvals</td>
<td>FM/CSA Explosion-proof (Integral type only) FM/CSA Intrinsically Safe (Integral and remote type) ATEX Type EExIBn, N, IECEx Type cExiIB1dI</td>
</tr>
<tr>
<td>Pipe connections</td>
<td>Flange/Wafer ANSI 150/300, JIS 10/20/30K, DIN PN 10/16/25</td>
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<tr>
<td>Lining</td>
<td>PFA</td>
</tr>
<tr>
<td>Fluid temp.</td>
<td>-20 to +130°C (-4 to +266°F)</td>
</tr>
<tr>
<td>Fluid pressure</td>
<td>-0.098 to 2.84 MPa (0.142 to 426 psi)</td>
</tr>
<tr>
<td>Ambient temp.</td>
<td>-20 to +65°C (-4 to +149°F)</td>
</tr>
<tr>
<td>Ambient humidity</td>
<td>10 to 90% RH</td>
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Azbil Corporation
Advanced Automation Company

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