



ADMAG AXR[®]

Supreme 2-Wire Magmeter



New 2-wire era.

Premium performance for your Operational Excellence.

Supreme Performance

- Field-proven dual frequency, now by 2-wire magmeter
 - Steady measurement under harsh flow conditions
 - Suitable for control loop
- Realized high accuracy (0.5% of rate)
- Electric noise immunity equivalent to 4-wire magmeter

Friendly, Sophisticated Functions

- Concise indications on full dot-matrix LCD
 - Multilingual indication
 - Countermeasure indication for alarms
- Magnet switch operation without opening cover
Suitable for hazardous area
- Electrode adhesion Checking

Reducing Instrumentation Cost

- No extra AC power supply
- Direct connection to DCS I/O card
- Power saving: 1 to 4% of typical 4-wire magmeters

Bulletin 01E30A01-01EN

www.yokogawa.com

vigilantplant.[®]
The clear path to operational excellence

YOKOGAWA ◆



Supreme 2-Wire Magmeter ADMAG **AXR**[®]

Specification

*Please refer to General Specifications in detail.

Structure	Integral flowmeter
Excitation Method	Dual frequency excitation
Nominal Pipe Size [Unit : mm (approx. inch)]	General-purpose use: 25 (1.0) to 100 (4.0) Explosion proof Type: 25 (1.0) to 100 (4.0)
Supply Voltage	Operating voltage range 14.7 to 35 V DC Two-wire system
Output Signals	Current output Digital output (One output can be selected from pulse, alarm or status outputs.)
Electrode Material	Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent), Hastelloy C276 equivalent, Tantalum, Platinum-iridium
Fluid Temp.	- 40 to 130 deg.C (- 40 to 266 deg.F) [depends on model type]
Ambient Temp.	- 40 to 55 deg.C (- 40 to 131 deg.F)
Accuracy	0.5% of rate (Note 1) [depends on nominal pipe size and fluid condition]
Fluid Conductivity	10 micro-S/cm or larger (note 2) [depends on nominal pipe size and fluid condition]
Lining	Fluorocarbon PFA (Mirror-finished lining surface)
Lay Length [Unit : mm (approx. inch)]	Lay length code 1: Wafer ; size 80 (3.0) to 100 (4.0), Flange ; size 25 (1.0) to 100 (4.0) Lay length code 2: Wafer ; size 25 (1.0) to 100 (4.0)
Indicator	Full dot-matrix LCD
Operational Switch	4 magnet switches (including push switches)
Self Diagnosis	Electrode adhesion diagnosis, Coil open, etc.
Alarm Message	Alarm message with countermeasure is indicated (English, German, French, Italian, Spanish, Japanese)
Options	Direction change of the electrical connection, Special Gaskets, Bar-magnet for operation of magnet switches, etc.

Note 1: The accuracy of a product before shipment is defined as totalized value at the result of calibration test in our water actual flow test facility.

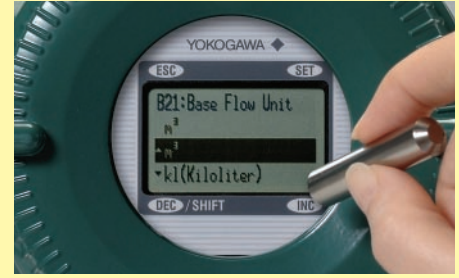
Note 2: For a fluid with large flow noise (pure water, pure alcohol or others), or a fluid with low conductivity and low viscosity, the output fluctuates and is impossible to measure accurately.

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NOTICE

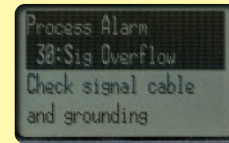
- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

Friendly, sophisticated functions



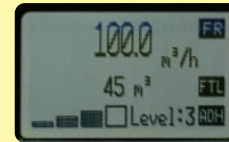
Magnet switch operation over glass

•Process alarms



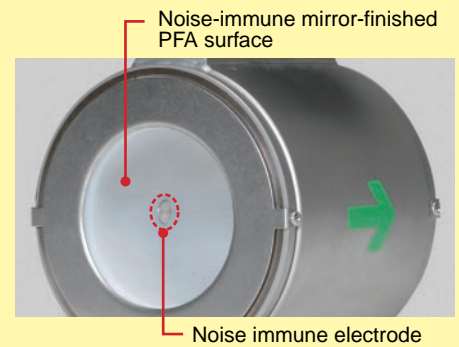
Countermeasure indication for alarms

•Fluid adhesion level (off-line diagnosis)



"Level 3" means that it is about time for cleaning

Structure immune to flow noise



vigilantplant[®]

The clear path to operational excellence

SEE
CLEARLY

KNOW
IN ADVANCE

ACT
WITH AGILITY

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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