



# ADMAG AXR<sup>®</sup>

## 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](http://www.yokogawa.com)

**vigilantplant.<sup>®</sup>**  
The clear path to operational excellence

**YOKOGAWA** ◆



# Supreme 2-Wire Magmeter ADMAG **AXR**<sup>®</sup>

## Specification

\*Please refer to General Specifications in detail.

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

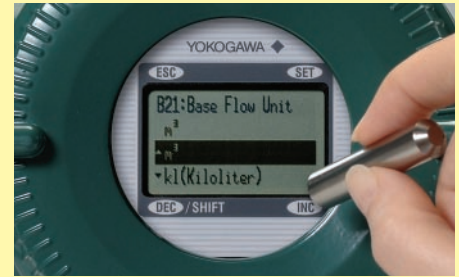
Note 2: For a fluid with large flow noise (pure water, pure alcohol or others), or a fluid with low conductivity and low viscosity, the output fluctuates and is impossible to measure accurately.

**ADMAG AXR**<sup>®</sup> is a registered trademark of Yokogawa Electric Corporation.

### NOTICE

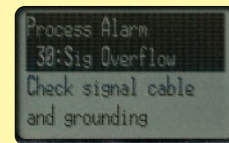
- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

## Friendly, sophisticated functions



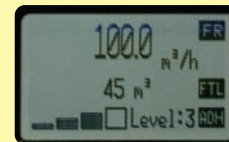
Magnet switch operation over glass

### •Process alarms



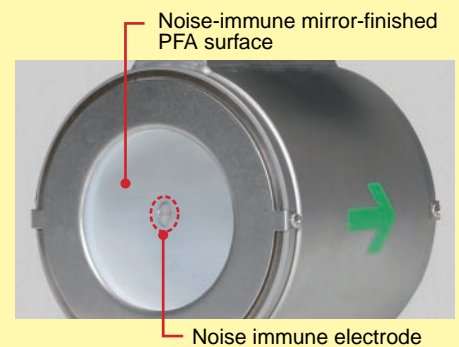
Countermeasure indication for alarms

### •Fluid adhesion level (off-line diagnosis)



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

## Structure immune to flow noise



**vigilantplant**<sup>®</sup>

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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