

# Wallace & Tiernan®

## Flow Measurement Equipment

### Arma-View® II Low Flow Armored Purge Meter

The Arma-View® II type armored purgometer is part of the Wallace & Tiernan® line of flow measurement equipment. It is designed for the measurement of low volume flows of aggressive chemicals. The strong meter construction provides reliable metering of gases and liquids at high pressure and temperature ratings.

#### Features

##### Easy Readability

State-of-the-art technology in a variable-area design provides easy visual readout. Standard scale calibrations are 0-100% or GPH.

##### True Magnetic Coupling

A powerful magnet encapsulated in the float forms a linkage with the follower magnets of the indicating mechanism. The indicator finds correct position in relationship to the float. Intelligent coupling between the float and follower prevent separation if sudden flow surges occur. Variations in flow are indicated on the calibrated scale.

##### Versatility and Convenience

Inlet and outlet connections are horizontally oriented. An optional inlet control valve provides smooth manual control of flow rate. The characterized valve stem helps assure dependable control.

##### Rugged Construction

The meter body is 316L stainless steel unibody construction. Except for O-rings and stop spring, all wetted parts, tube, float, and valve stem are 316L stainless steel. Viton® O-rings are the standard O-rings used. Kalrez® O-rings are also available. The indicating mechanism is housed in an epoxy powder-coated, NEMA-4 housing.

##### Key Benefits:

- Stands up to extreme conditions with rugged construction and FM approvals
- Reliable long term performance in gas or liquid service
- Highly accurate and stable readings for precise measurement and control
- Easily adaptable to fit your exact needs with standard options
- Reduced installation and maintenance costs compared to other meters



Arma-View® II Low Flow Armoured Purge Meter

## Product Sheet

## Optional Accessories

### Versatile Flow Controller

An optional purge type flow controller is available. It is designed for the control of low-volume flows of aggressive chemicals in systems with varying pressures. This maintains constant flow regardless of pressure variations. The controller is offered in 316 SS construction, for inlet or outlet configurations. It can be assembled to the meter or as a stand alone in the process line. Controllers are available in standard and high-pressure versions. See literature number WT.570.100.000.UA.PS for additional information.

**Maximum pressure:** 350 PSIG standard version; 1000 PSIG high-pressure version

**Maximum differential:** 300 PSI between inlet and outlet pressures

**Minimum pressure required:** 6 PSIG for low and medium flow; 9 PSIG for high flow

**Connection inlet/outlet:** 1/4-inch NPT at 90° angle

### Electronic Transmitter

An optional FM-approved explosion-proof transmitter provides accurate magnet angle detection to a 4-20mA industry standard analog output signal. Design features include Smart, microprocessor-based 2-wire 8-28Vdc field transmitter, microprocessor-controlled gain, adjustable low-cutoff, low-pass filter, electronics designed to meet CE requirements, and PC-interface with no external power required. Eleven-point calibration provides linearization and storage in non-volatile memory and provides accuracy better than 0.5%.

## Selection Procedure

a. Determine ordering number from table.

b. Specify fluid, specific gravity, and viscosity.

5135M                                   

**Basic Arrangement**    5135M

**Meter Capacity**

Size	Water at STP		Air at STP	
	GPH	LPH	SCFH	SLPM
00	—	—	1.47	0.7
01	0.38	1.4	2.1	1
02	0.8	3	4.5	2.1
03	2.1	8	11.7	5.5
04	5	19	23.4	11
05	11	42	53.2	25
06	25	95	117	55

**Valve Selection**

Code	Description
X*	None
2	Inlet

\*Choose "X" with optional controller.

**O-Ring Slection**

Code	Description
V	VITON (standard)
K	KALREZ

**Controller Selection**

Code	Description
X	None
I	Inlet (350 PSIG)
O	Outlet (350 PSIG)
H	Inlet (1000 PSIG)
P	Outlet (1000 PSIG)

**Scale Calibration**

Code	Description
D	Standard % Air
U	Standard (GPH) Water
P	Standard % Water

**Identification Tag**

Code	Description
X	None
1	Stainless Steel

**Electronic Transmitter**

Code	Description
X	None
6	Explosion-Proof Transmitter

## Technical Data

### Accuracy

Standard  $\pm$  5% of full scale  
Optional  $\pm$  3% of full scale

### Range

10:1

### Pipe Connections

Horizontal 1/4" NPT at meter inlet and outlet.

### Mounting

Suitable for in-line mounting.

### Calibration

Standard scale calibrations are 0-100% or GPH water.  
Scale length is 3 inches.

### Pressure and Temperature Limits

Meter with or without valve: 1500 PSI and fluid temp. of 400° F\*  
Meter with flow controller: 350 PSI and Fluid Temp. 300° F\*  
\*With proper O-ring material.

Temperature and pressure limits must not be exceeded under any conditions.

### Shipping Weights

Meter only: 5 lbs  
Meter with control valve: 5 lbs  
Meter with a controller: 10 lbs

### Dimensions

See WT.510.350.100.UA.CN through WT.510.350.106.UA.CN

## Capacities

Size Code	Liquid Service GPH (LPH)	Gas Service SCFH (SLPM)	Minimum Inlet Pressure (gas only) w/Valve
00	N/A	1.47 (0.7)	4.2 Inches of H <sub>2</sub> O
01	0.38 (1.4)	2.1 (1.0)	0.4 PSI
02	0.8 (3)	4.5 (2.1)	0.9 PSI
03	2.1 (8)	11.7 (5.5)	0.5 PSI
04	5 (19)	23.4 (11.0)	1.5 PSI
05	11 (42)	53.2 (25.0)	1.0 PSI
06	25 (95)	117 (55.0)	4 PSI

NOTE: Capacities are based on water at 70°F; air at STP.

Siemens  
Water Technologies

USA  
+1 856 507 9000  
wtus.water@siemens.com

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