

TRITON+® Flow Monitoring System AV|MAX™ Sensor



TRITON+ and AV|MAX Flow Monitoring System is used to gather data for use in a variety of applications:

Infiltration and inflow (I/I) analysis

Model validation

Capacity assessment

Flow billing

Combined sewer overflows (CSOs)

Sanitary sewer overflows (SSOs)

SSO data & reporting

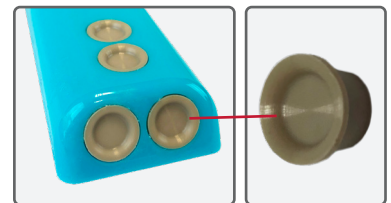
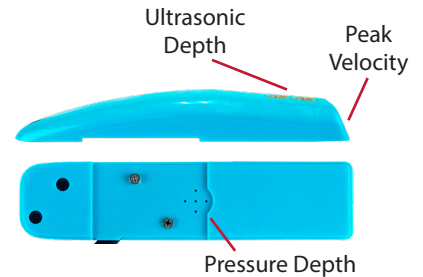
Precision, High-durability Sensor

AV|MAX™ is a new area-velocity sensor used with the ADS® **TRITON+®** monitor. The sensor measures four parameters including:

- Depth - using ultrasonic "UpDepth"
- Depth - pressure
- Velocity - continuous wave ultrasonic Doppler
- Water temperature

The **AV|MAX** is a wetted sensor, installed in the pipe flow lending to its consistent, high quality data collection capability. It features an ultra-low profile, rugged, polycarbonate housing, in a high-visibility blue color. These characteristics bring exceptional durability and ease-of-maintenance for users.

The **AV|MAX** is designed for accurate and consistent performance in depths from 1" to 60" (25.4 mm to 1.5 m) and in flows of up to 30 fps (9.14 m/s). It is typically the sensor of choice in most applications and can be used with confidence across the full sensor range. Where there are intermittent no-flows (dry pipe), it is recommended that the **AV|MAX** be used in combination with one of ADS' non-contact sensors.



Protected, recessed sensors

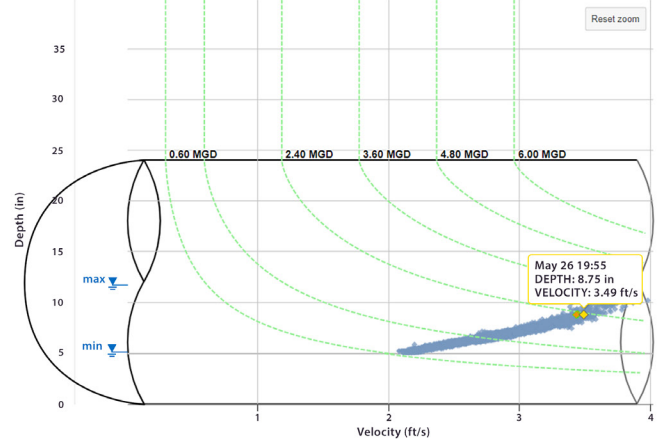


AV|MAX installed with standard installation ring

HYDROGRAPH



SCATTERGRAPH



Accurate data capture and analysis with the Cloud-based ADS **PRISM™** software

AV|MAX™ Sensor

Specifications



Sensor Dimensions	Height: 0.82 in. (20.8 mm)
	Width: 1.49 in. (37.8 mm)
	Length: 6.28 in. (159.5 mm)
Sensor Housing	Material: Polycarbonate (PC)/PEEK Color: Blue
Weight	Sensor & Cable: 1.7 lb (0.77 kg)
Cable	Length: 35 ft (10.7 m)
	Diameter: 0.30 in. (7.6 mm)
	Jacket Material: Polyurethane
UpDepth / Ultrasonic Depth	Depth Accuracy: ± 0.125 in. (± 3.2 mm) or $\pm 0.5\%$ of actual reading; whichever is greater
	Range: 1.00 to 60.00 in. (25.4 mm to 1.5 m)
	Resolution: 0.01 in. (0.25 mm)
	Deadband: 1.00 in. (25.4 mm) from bottom of pipe (Subject to hydraulics of flow)
Doppler Velocity	Accuracy: ± 0.2 fps (0.06 m/s) or $\pm 4\%$ of actual reading; whichever is greater
	Range: -30 to 30 fps (-9.14 to 9.14 m/s)
	Resolution: 0.01 fps (0.003 m/s)
	Deadband: 1.00 in. (25.4 mm) from the bottom of the pipe (Subject to hydraulics of flow)
Pressure Depth	Accuracy: $\pm 1\%$ of full range
	Range: 0 to 10 PSI; 0 to 277 in. (0 to 7.0 m)
	Resolution: 0.01 in. (0.25 mm)
Temperatures	Operating range: -4° to 140° F (-20° to 60° C)
	Storage: -4° to 167° F (-20° to 75° C)

* Note: This sensor will not produce accurate readings in frozen flow.

Compatibility The AV|MAX sensor is used with the ADS TRITON+ flow monitor

Qstart™XML - setup and activation

PRISM - data analysis

Mounting Method ADS stainless steel ring or special metal. Must be mounted ± 5 degrees from center; greater rotation possible with ADS Silt Wedge.

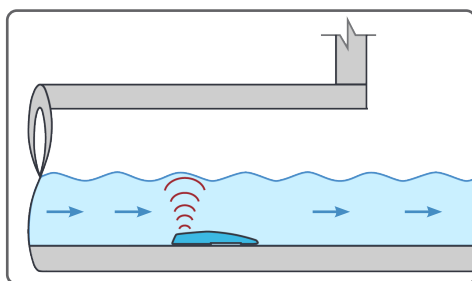
Certifications The AV|MAX is developed and manufactured under the ISO 9001:2015 Quality Management Standard, and designed to meet requirements for RoHS and IP68 standards.

Certified under the ATEX European Intrinsic Safety standards for Zone 0 rated hazardous areas

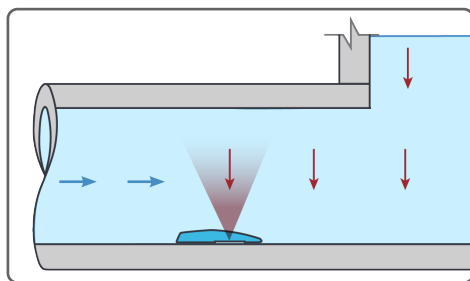
Certified under IECEx (International Electrotechnical Commission) Intrinsic Safety Standards for use in Zone 0 rated hazardous areas (equivalent to Class I, Division 1, Groups C & D)

CSA Certified to Class 225803 Process Control Equipment, Intrinsically Safe and Non-Incendive Systems – For Zone 0 Hazardous Locations, Ex ia IIB T3 Ga (152° C) in Canada

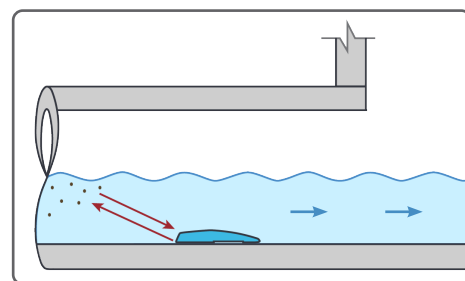
CSA Certified to Class 225883 Process Control Equipment, Intrinsically Safe and Non-Incendive Systems – For Class I Zone 0 Hazardous Locations, AEx ia IIB T3 Ga (152° C) in the USA (equivalent to Class I, Division 1, Groups C & D)



Ultrasonic Depth



Surcharge Pressure Depth



Continuous Wave Doppler Velocity



Learn More About TRITON+
www.adsenv.com/triton



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