

TRITON+® Flow Monitoring System PARADEPTH™ Sensor



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

Sanitary sewer overflows (SSOs)

Combined sewer overflows (CSOs)

Infiltration and inflow (I/I) analysis

Model validation

Optimize cleaning process

Lift/pump station backup

SSO data & reporting

Bypass monitoring

Flume monitoring

High-durability, Non-contact Depth Sensor

PARADEPTH™ is a new non-contact depth sensor used with the ADS® **TRITON+®** monitor. The sensor measures two parameters including:

- Depth - using ultrasonic
- Air temperature (compensation)

In order to make timely, critical, and prompt decisions in your collection system, the new non-contact ADS **PARADEPTH** sensor can be used to acquire accurate depth data.

Leveraging the patented design of an integrated parabolic reflector, **PARADEPTH** can achieve more reliable depth measurements compared to previously available non-contact sensor technologies. **PARADEPTH** utilizes ultrasonic sensing through parabolic focusing and includes new industrial housing and mounting hardware. Users can quickly and seamlessly integrate the **PARADEPTH** sensor into existing or new ADS flow monitoring networks.

This new sensor, alongside ADS **PRISM™**, provides a seamless user experience and the benefit of an ADS sensing technology and data solution platform for depth data analysis.



Mounted position, side view



Depth
Underside detail



PARADEPTH installed with standard installation ring



Lowest lifetime costs of any non-contact depth sensor on the market.



New, high-durability design. Less maintenance due to the ruggedized design of the sensor transducers that protect the sensor faces with the parabolic cavities.



Patented technology using parabolic focusing provides targeted and accurate surface measurements.

PARADEPTH™ Sensor Specifications



Sensor Dimensions	Height: 2.58 in. (65.5 mm) Width: 2.28 in. (57.9 mm) Length: 10.87 in. (276.1 mm)
Sensor Housing	Material: Polycarbonate (PC) Color: High-visibility yellow
Cable	Length: 30 ft (9.1 m) Diameter: 0.30 in. (7.6 mm) Jacket material: Polyurethane
Weight	Sensor & Cable: 3.03 lbs (1.37 kg)
Ultrasonic Depth	Accuracy: ±0.125 in. (± 3.2 mm) Operating air range: 0 to 144 in. (0.0 mm to 3.7 m) Resolution: 0.01 in. (0.25 mm) Deadband: 0 in. (0 mm) from the bottom of the sensor
Temperatures	Operating range: -4° to 140° F (-20° to 60° C) Storage: -4° to 167° F (-20° to 75° C)
Compatibility	The PARADEPTH sensor is used with the ADS TRITON+ flow monitor Qstart™XML - setup and activation PRISM - data analysis

Mounting Method	ADS stainless steel mounting band/ring Topside Retrieval System
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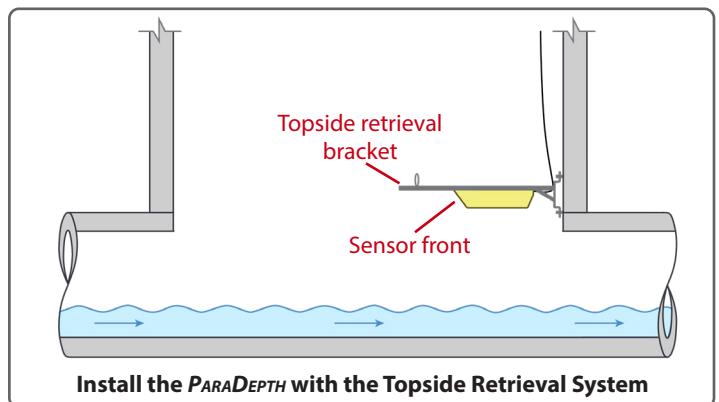
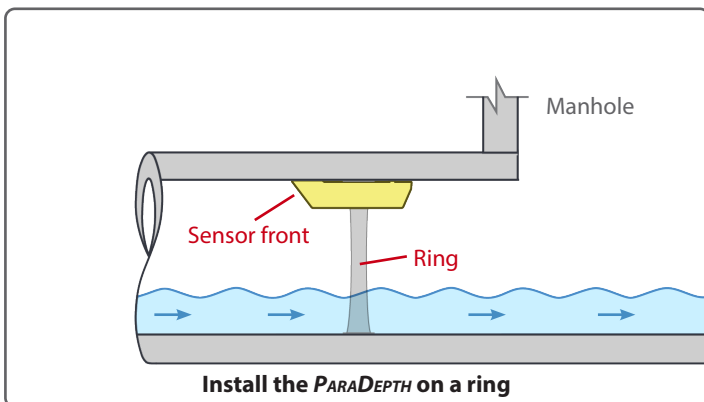
Certifications The **PARADEPTH** is developed and manufactured under the ISO 9001:2015 Quality Management Standard, and designed to meet requirements for RoHS and IP68 standards

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)



Learn More About **TRITON+**
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