

Isco Street Level Installation Tool

Measuring flow and water quality in sewers is now fast and easy. The Isco Street Level Installation Tool lets you install your monitoring system from ground level, eliminating the costs and hazards of manhole entry.

Pole sections can be combined to access pipe as deep as 15 feet.

Use the Street Level Installation Tool with the following Isco flow and parameter sensors:

- Area Velocity Sensors
- Submerged Probes
- Bubble Lines
- pH Probes
- Dissolved Oxygen Probes
- Temperature Probes

Non-Isco probes can be used as well, but may require adapting to fit the mounting rings.

Fast and Simple to Use

The Street Level Installation Tool consists of a Mounting Ring and a Multi-section Pole. Rings are available to fit inside 6", 8", 10", 12" and 15" diameter pipes.

Easy to Install – Attach your sensor to the mounting ring, then slide the ring onto the rod at the base of the pole and lower it into the manhole. Pulling the strap collapses the ring so it can be inserted into the upstream pipe. Once in place, release the strap, allowing tension against the wall of the pipe to hold the ring in place. Remove the pole.

Easy to Remove – Pull on the strap to collapse the mounting ring for quick removal.



The Isco Street Level Installation Tool saves time and eliminates the hazards of manhole entry.

Isco Street Level Installation Tool Specifications

Mounting Rings			Multi-section Pole		
Available Sizes	6", 8", 10", 12" and 15"	150, 200, 250, 300 and 380 mm	Maximum Length (assembled)	17.75 feet	5.4 m
Strap Length	18 feet	5.5 m	Maximum Manhole Depth (approximate)	15 feet	4.6 m
Weight (12" ring with strap)	6 lbs.	2.7 kg	Maximum Length (disassembled)	3 feet	0.9 m
Materials	Type 301 stainless steel, Delrin®, stainless steel hardware, polypropylene strap		Maximum Weight	6.5 lbs.	2.9 kg
Compatible Isco Sensors	Area velocity sensors, submerged probes, bubble lines, pH probes, dissolved oxygen probes, temperature probes		Materials	Anodized aluminum, Type 304 stainless steel, Delrin	

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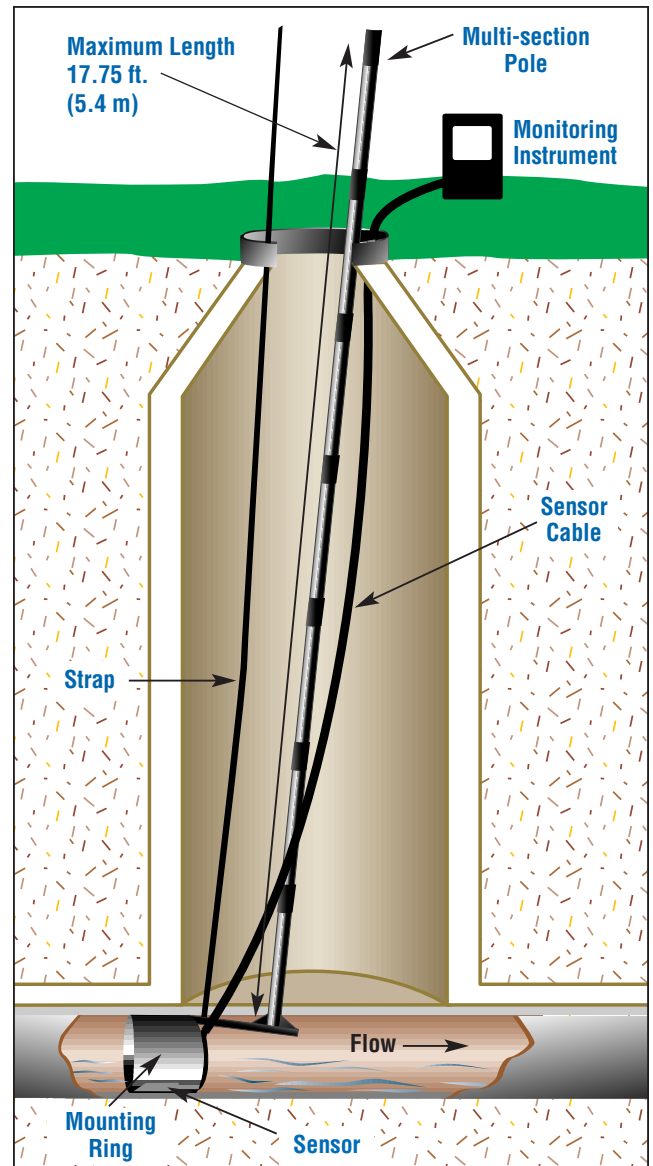
Ordering Information

For a complete Street Level Installation Tool, order:

- At least one Multi-section Pole
- Mounting Ring(s) and Sensor Carrier(s) for your application(s)

NOTE: The Isco area velocity sensor does not require a carrier because it has an integral mounting plate that slips onto the rings.

Description	Part Number
Multi-section Pole (includes instruction manual)	60-3204-012
Mounting Rings (include straps)	
For 6" (150 mm) Diameter Pipe	60-3204-014
For 8" (200 mm) Diameter Pipe	60-3204-015
For 10" (250 mm) Diameter Pipe	60-3204-016
For 12" (300 mm) Diameter Pipe	60-3204-017
For 15" (380 mm) Diameter Pipe	60-3204-018
Sensor Carriers (needed to attach probes to rings)	
For Submerged Probe Level Sensor	60-3204-005
For Bubble Line	60-3204-007
For pH Probe with Built-in Exposed Temperature Probe	60-3204-009
For pH Probe and Separate Temperature Probe	60-3204-004
For Dissolved Oxygen and Temperature Probe	60-3204-006
For Temperature Probe Only	60-3204-010



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Isco Flow Metering Inserts

Isco Flow Metering Inserts provide a quick and accurate means of measuring and recording flow in round sewer pipes. Their unique design allows you to install the metering inserts from ground level, eliminating the costs and hazards of manhole entry.

The metering inserts are designed for use with the Isco 730 and 4230 bubbler flow meters. They are ideal for short-term (a few hours) or long-term (several weeks) flow measurement studies.

Versatile and Accurate

Isco Flow Metering Inserts allow you to accurately measure flow in pipes from 6 inch to 12 inch diameter, in manholes up to 16 feet deep. Tested and calibrated† by St. Anthony Falls Hydraulics Laboratory at the University of Minnesota, the metering inserts provide accurate measurement from 1 to 640 gpm.

Durable Construction

Isco Flow Metering Inserts are constructed of durable, corrosion-resistant aluminum and plastic. A complete system consists of a metering insert and interlocking pole sections. Each metering insert includes an integral round orifice for measuring higher flow rates. An attachable 60° V-notch weir plate provides higher accuracy at lower flow rates.

Simple Setup and Operation

Connect the metering insert to the bubbler flow meter, adjust the bubble rate to about one bubble per second, and set the flow meter level reading to zero. The interlocking pole sections and the metering insert then snap together without tools. Using the pole from ground level, lower the metering insert into the manhole and position it in the upstream pipe.

Using the included pump, inflate the rubber bladder on the metering insert to seal and secure the insert in place. The Isco bubbler flow meter then measures and records flow in the sewer. Installing an Isco Flow Metering Insert takes just minutes, and completely eliminates the hassles of installing a weir or flume in a manhole.

When your monitoring project is completed, removing the insert is easy. Simply deflate the bladder and use the pole to lift the metering insert to ground level. You can then quickly disassemble the metering insert for storage or transportation between monitoring sites.

†Actual calibration test results available upon request.



Flow Metering Inserts eliminate the costs and hazards of manhole entry and the need for weirs or flumes.

Specifications

Isco Flow Metering Inserts	
Equipment Provided	One Flow Metering Insert with attachable 60° V-notch weir plate and 20 ft (6.1 m) inflation/bubbler hose
	Five 2.5 ft (0.76 m) pole sections Foot pump for inflation of rubber bladder Right angle pole
Metering Insert Sizes	6, 8, 10, 12 inches (150, 200, 250, 300 mm)
Maximum Manhole Depth (approximate)	16 feet (4.9 meters)
Typical Accuracy (Max error for pipe slopes ≤ 2.5%)	
Below 20 gpm (1.3 l/s)	±1 gpm (±0.063 l/s)
20 to 40 gpm (1.3 to 2.5 l/s)	±2 gpm (±0.13 l/s)
Above 40 gpm (2.5 l/s)	±5 % of reading
Flow Range for 6 inch (150 mm) Insert	
with V-notch weir	1 to 90 gpm (0.063 to 5.7 l/s)
with round orifice	5 to 180 gpm (0.32 to 11 l/s)
Flow Range for 8 inch (200 mm) Insert	
with V-notch weir	1 to 160 gpm (0.063 to 10 l/s)
with round orifice	10 to 320 gpm (0.63 to 20 l/s)
Flow Range for 10 inch (250 mm) Insert	
with V-notch weir	1 to 230 gpm (0.063 to 15 l/s)
with round orifice	20 to 480 gpm (1.3 to 30 l/s)
Flow Range for 12 inch (300 mm) Insert	
with V-notch weir	1 to 320 gpm (0.063 to 20 l/s)
with round orifice	40 to 640 gpm (2.5 to 40 l/s)

Ordering Information

Description	Part Number
6 inch (150 mm) Flow Metering Insert	68-3230-005
8 inch (200 mm) Flow Metering Insert	68-3230-006
10 inch (250 mm) Flow Metering Insert	68-3230-007
12 inch (300 mm) Flow Metering Insert	68-3230-008



Above: Each kit comes complete with pole sections and pump for inflating the bladder. Below: positioning the metering insert into the upstream side of a manhole.



Water is life. Protect it.

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