

## Isco 2151P Intrinsically Safe Flow System - Specifications

<b>Size (HxWxD):</b>	3.75 x 9.5 x 11.0 inches (9.5 x 24.0 x 28.0 cm)
<b>Weight:</b>	5.5 lbs (2.5 kg)
<b>Approvals:</b>	CSA Certified for Class I, Div. 1 Group C & D. Temperature Code - T3C at 60° C, ambient. CAN/CSA Standard C22.2 No. 157-92. UL Standard No. 913, Feb. 21, 1994
<b>Program Memory:</b>	Non-volatile, programmable flash; can be updated using PC without opening enclosure; retains user program after updating
<b>Flow Rate Conversions:</b>	Up to 2 independent level-to-area conversions and/or level-to-flow rate conversions
<b>Power:</b>	12V DC, 100 mA nominal (CSA-approved intrinsically safe)
<b>Level-to-Area Conversions</b>	
<b>Channel Shapes:</b>	Round, U-shaped, rectangular, trapezoidal, elliptical, with silt correction
<b>Data Points:</b>	Up to 50 level-area points
<b>Level-to-Flow Rate Conversions</b>	
<b>Weirs:</b>	V-notch, rectangular, Cipolletti, Isco Flow Metering Inserts, Thel-Mar
<b>Flumes:</b>	Parshall, Palmer-Bowlus, Leopold-Lagco, trapezoidal, H, HS, HL
<b>Manning Formula:</b>	Round, U-shaped, rectangular, trapezoidal
<b>Data Points:</b>	Up to 50 level-flow rate points
<b>Equation:</b>	2-term polynomial
<b>Total Flow Calculations:</b>	Up to 2 independent, net, positive or negative, based on either flow rate conversion
<b>Data Storage Memory:</b>	Non-volatile flash; retains stored data during program updates. Capacity 395,000 bytes (up to 79,000 readings, equal to over 270 days of level and velocity readings at 15 minute intervals, plus total flow and input voltage readings at 24 hour intervals)
<b>Data Types:</b>	Level, velocity, flow rate 1, flow rate 2, total flow 1, total flow 2, input voltage
<b>Storage Mode:</b>	Rollover with variable rate data storage based on level, velocity, flow rate 1, flow rate 2, total flow 1, total flow 2, or input voltage
<b>Storage Interval:</b>	15 or 30 seconds; 1, 5, 15, or 30 minutes; or 1, 2, 4, 12, or 24 hours. 5 Bytes per reading.
<b>Setup and Data Retrieval:</b>	Serial connection to IBM PC or compatible computer with Isco Flowlink Software.
<b>Baud Rate:</b>	38,400
<b>Operating temperature:</b>	0° to 140°F (-18° to 60°C)
<b>Storage temperature:</b>	-40° to 140°F (-40° to 60°C)
<b>Area Velocity Sensor</b>	
<b>(See 2151 for sensor specifications)</b>	