Isco 4250 Flow Mete	r – Specifications
Size (H x W x D):	17.0 x 11.5 x 10.5 in. (43 x 29 x 26.7 cm) (without power source)
Weight:	17.3 lbs (7.8 kg) (without power source)
Material:	High-impact moulded polystyrene structural foam
Enclosure:	NEMA 4X (iP65)
Power:	12 to 14V DC, 24 mA average at 12.5V DC
	inter set at 1 in/hr, 1 minute level reading interval)
934 NiCad Battery:	7 to 8 days
946 Lead-Acid Battery:	10 to 12 days
948 Lead-Acid Battery:	2 to 2½ months
Program Memory:	Non-volatile, programmable flash. Updateable without opening enclosure.
Display:	Backlit LCD, 2-line, 80-character (5.5 mm high x 3.2 mm wide)
Level-to-Flow Rate Con	-
Weirs:	V-notch, rectangular with and without end contractions, Cipolletti
Flumes:	Parshall, Palmer-Bowlus, Leopold-Lagco, Trapezoidal, H, HS, HL
Manning Formula:	Round, U-channel, rectangular, trapezoidal Data Points Four sets of 50
	level-flow rate points Equation Two-term polynomial
Totalisers	
LCD:	9-digit, floating decimal point, resettable
Mechanical (optional):	7-digit, non-resettable
Inputs and outputs	
Rain Gauge Input:	Contact closure, normally open. Resolution 0.01 or 0.004 in (0.25 or 0.1
	mm)
Parameter Inputs:	pH, dissolved oxygen, conductivity, and temperature (with optional YSI
·	600 sonde); pH and temperature (with optional Isco 201 Parameter
	Module); or dissolved oxygen and temperature (with optional Isco 270
	Parameter Module)
Sampler Activation	Enabled, disabled, AND and OR combinations of any two of level, flow rate,
Conditions:	rainfall, pH, DO, conductivity, and temperature
Sampler Pacing Output:	12V pulse
Sampler Input:	Event mark, bottle number
Printer	He to 2 months of level flowers to all D2 months it. The conditions and the
Recording Modes:	Up to 3 graphs of level, flow rate, pH, DO, conductivity, and temperature
	vs time; includes totalized flow. Rainfall and sampler events (time and
Sneed	vs time; includes totalized flow. Rainfall and sampler events (time and bottle number) are also recorded
Speed:	vs time; includes totalized flow. Rainfall and sampler events (time and bottle number) are also recorded Off, 0.5, 1, 2, 4 in/hr (1.25, 2.5, 5, 10 cm/hr)
Recording Span:	vs time; includes totalized flow. Rainfall and sampler events (time and bottle number) are also recorded Off, 0.5, 1, 2, 4 in/hr (1.25, 2.5, 5, 10 cm/hr) User selectable with multiple over-ranges
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International Content		
scaleable based on level, flow rate, pH, DO, conductivity, or temperature, into a maximum of 750 ohms each Relay Outputs: 2 form C relays with field selectable trip points based on flow rate (with optional High/Low Alarm Relays) Serial Output: Current status and readings, in response to command or automatically at selectable time intervals, ASCII comma separated values at 1200, 2400, 4800, or 9600 baud Storage Temperature: -40° to 140°F (-40° to 60°C) Operating Temperature: 0° to 140°F (-18° to 60°C) Ultrasonic Sensor Length x diameter: 6.9 x 3.6 in (17.5 x 9.1 cm) Cable Lengthxdiameter: 25 ft x 0.3 in (7.6 m x 0.8 cm) Weight (incl cable): 2.6 lbs (1.2 kg) Enclosure: NEMA 4X, 6; IP67 Frequency: 40 kHz Range (distance from sensor to liquid): Span: 0 to 10 ft (0 to 3 m) Blanking Distance: 2 to 12 ft. (0.6 to 3.7 m) Level Measurement Accuracy - at 22°C (72°F), still air, 40 to 70% humidity. Head change is actual change in vertical distance from ultrasonic sensor to liquid surface) for head change <1.0 ft (<0.31 m): for head change of 1.0 to 10 ft (0.31 to 3.05 m): Temperature Coefficient: Maximum error over compensated temperature range (per degree of temperature change) ±0.000047 x D per °F (±0.00085 x D per °C) where D is the distance from the transducer to the liquid surface Operating Temperature: -22° to 140°F (-30° to 60°C)	modem):	level, flow rate, rainfall, pH, DO, conductivity, and temperature
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Serial Output: Current status and readings, in response to command or automatically at selectable time intervals, ASCII comma separated values at 1200, 2400, 4800, or 9600 baud Storage Temperature: Operating Temperature: O° to 140°F (-40° to 60°C) Ultrasonic Sensor Length x diameter: Cable Lengthxdiameter: 25 ft x 0.3 in (7.6 m x 0.8 cm) Weight (incl cable): 2.6 lbs (1.2 kg) Enclosure: NEMA 4X, 6; IP67 Frequency: 40 kHz Range (distance from sensor to liquid): Span: O to 10 ft (0 to 3 m) Blanking Distance: Level Measurement Accuracy - at 22°C (72°F), still air, 40 to 70% humidity. Head change is actual change in vertical distance from ultrasonic sensor to liquid surface) for head change of 1.0 to 10 ft (0.31 to 3.05 m): for head change of 1.0 to 10 ft (0.31 to 3.05 m): Temperature Coefficient: Maximum error over compensated temperature range (per degree of temperature change) ±0.000047 x D per °F (±0.000085 x D per °C) where D is the distance from the transducer to the liquid surface Compensated Temperature: Compensated Temperature	Relay Outputs:	···
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Compensated -22° to 140°F (-30° to 60°C) Temperature:		
Temperature:		
•		-22° to 140°F (-30° to 60°C)
Materials: Sensor housing is Xenoy 6120; Cable Jacket is Polyvinyl chloride (PVC)		(400 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Materials:	Sensor housing is Xenoy 6120; Cable jacket is Polyvinyl chloride (PVC)