



Kraus Fleet Series Hydrogen Dispenser

The Kraus Fleet Series Hydrogen dispenser sets the industry standard for reliability, durability, and safety. Kraus continues to raise the bar by providing customers a lower cost alternative while delivering the continued performance expected from a dispenser built by Kraus. Featuring the industry leading MICON™ 500 Hydrogen controller at the heart of its system, the Kraus Fleet Series Hydrogen dispenser is ideal for material handling and fleet fueling applications.



● **Flexibility** - The Fleet Series Hydrogen dispenser is designed to be used in fleet, private, and warehouse locations all while providing a full range of flow rate designs and inlet configurations. This provides scalability to use the Fleet Series Hydrogen dispenser in everything from light duty forklift fueling applications through to high flow transit fueling applications. Our ability to customize solutions to suit our customers' unique and changing needs is a recognized strength of ours within the industry.

● **Connectivity** - The Fleet Series Hydrogen dispenser provides simplified connections to all industry accepted external FMS/POS systems and private fleet management systems via a range of communications protocols. The optional Modbus communications package provides detailed real-time fill information to the station side electronics, allowing for enhanced monitoring and analysis of each transaction.

● **Hazardous Locations** - The Fleet Series Hydrogen dispenser utilizes a full Class I, Division 2, Group B design via flameproof and intrinsically safe protection methods.

● **Control** - The Kraus Fleet Series Hydrogen dispenser features the SAE J2601 protocol or temperature compensated fills for both hot and cold ambient temperatures. Featuring the MICON™ 500 hydrogen controller, the dispenser includes configurable set points providing greater control to optimize the dispenser to suit your specific filling needs.

● **Safety** - The Kraus Fleet Series Hydrogen dispenser features a combustible gas detector, pressure relief valves, electrical overfill protection via the MICON™ 500 controller, and fail safe valves to ensure a safe fueling experience.

● **Reliability** - Kraus hydrogen dispensers have been utilized in fueling applications since 1998. With a wide array of configurations, the Kraus Fleet Series Hydrogen dispenser is the ideal solution for your hydrogen fueling needs.

FLEET SERIES HYDROGEN DISPENSER

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SPECIFICATIONS

STANDARD FEATURES:	COMPUTING AND CONTROLS:	REGULATORY:
Single and Dual hose configurations with Dual Front option available	MICON™ 500H Controller with ability for internal or remote flow-rate based sequencing	NRLT listing of the dispenser assembly - pending completion
Filling Protocol: Temperature compensated to 15°C; smart filling to compensate for heat of compression; SAE J2601 protocol	Standard communication Interfaces: 2-wire and pulse connections to external FMS/POS and card lock	Components UL/CSA listed
Target Filling Pressure: 3,600 psig (230 barg); 5,000 psig (350 barg); 10,000 psig (700 barg); standard (split pressure and other options available)	Available Modbus Communications package for connection to station PLC	Built to: NFPA 2, ASME B31.3, NFPA70
Maximum Allowable Working Pressure: all system components up to 12,750 psig (875 barg) MAWP	Compatible with private fleet fuel management systems	VOLTAGE:
Pressure only, or mass based filling	MECHANICAL CONTROLS AND VALVES:	120 VAC standard, 220/240 VAC available
Flow Rates: 8 Kg/min and 12 Kg/min Split Flow options available	Internal Piping & Connections available in sizes of 3/8" and 1/2"	Amperage: 5 to 10 Amps depending on options
Inlet Lines: Options for 1 per dispenser (buffer filling), 1 per hose, 2-bank sequencing, 3-bank sequencing; custom inlet options also available	Tubing and Fittings: All process tubing in SS with double ferrule compression fittings and/or cone and thread	Single Phase
Optional metering: Coriolis Mass Flow Technology; Accuracy of up to +/-2%	Control Valves: High flow Electric Solenoid Valves or Full Port Actuated Ball Valves	60 Hz, 50 Hz available
Primary Display: Three line display of Total Sale, Total Volume/Mass, and Price per Unit or, target fill pressure and actual pressure, located on a large backlit LCD display for easy viewing	Pressure Gauges: One panel mounted liquid filled pressure gauge installed per hose	+/- 10% Tolerance
Coalescing Filters provided, one per inlet line; installed in dispenser or provided loose for remote mounting depending on configuration	High Pressure Check Valves installed between sequencing valves	DIMENSIONS:
Start/Stop lever handle located on nozzle holster	One ASME rated Pressure Relief Valve installed per hose	Height: 84"
Rated hose assemblies, electrically conductive, with in-line breakaways	H2 Gas detector in cabinet	Width: 36"
Class I, Div. 2 Group B design via explosion proof and Intrinsically Safe protection methods	1/2" vent line, tubed to top or bottom of dispenser with easy bulkhead connection	Depth: 22"
		Weight: 750 lbs, 340 Kg
		OPERATING ENVIRONMENT:
		Ambient Temperature: -40°C to +40°C
		Ambient Humidity: 10% to 95%, relative basis
		Inlet Gas Temperature: -40°C to +65°C