Product Description
DDPS' Portable Dosing Cart is used to pump process liquids into a reactor or process vessel in a controlled fashion. The cart is compact and light-weight, making it easy for transport and storage. It consists of a highly accurate and precise pump and flow meter combination; which allows an operator to automatically charge a set amount of liquid within 0.1% of total volume, at a flow rate of up to 2 GPM. The cart can be rated for a classified hazardous area and may be combined with a control system to remotely set total charge and flow rate. The cart can also be fitted with a pH measurement loop as an optional upgrade.

Design Features
• High accuracy flow meter paired with adjustable metering pump
• Junction box / electrical cord
• Liquid inlet / outlet connections
• Nitrogen purge
• Remote operation
• Cart-mounted for portability
• Customized for individual system requirements

MAIN COMPONENTS
• High accuracy flow meter
• Metering Pump
• Isolation valves

PROCESS CONNECTIONS
• ¼” compression fitting for nitrogen (qty 1)
• ½” compression fittings for connections for compressed liquid inlet/outlet (qty 2)

TECHNICAL DATA
• 2 GPM, 0.1% accuracy
• Dimensions: 36” (L) x 18” (W) x 38” (H)

OPTIONAL FEATURES
• pH probe with sampling pump
• Upgrade to Class 1, Div 1 Components
• Local junction box with electrical cable to wall-mounted power supply
• PLC / Computer control
General Arrangement Drawings & P&ID

Nozzle Schedule

N1: ½” tube - Liquid Outlet
N2: ¼” tube - N₂ Blowdown
N3: ½” tube - Liquid Inlet

Major Components

1: Metering Pump
2: Flow Meter
3: Inlet Valve
4: Outlet Valve
5: N₂ Valve
6: Balancing Valve