

**EMCO WHEATON**

*A Gardner Denver Product*

# *DataPlus* EPMS

Electronic Pump Metering System



*Better by  
Design*

## Emco Wheaton *DataPlus*

The Emco Wheaton second generation DataPlus electronic metering system utilizes sophisticated electronic control technology together with proven engineered components creating an integrated pump metering solution delivering intuitive user friendly operation.

### What makes DataPlus special?

Emco Wheaton's new modular DataPlus incorporates an intuitive, easy to use large screen display. This enables the operator to easily control the metering system through the Display Key Pad.

**Data Transfer.** The system automatically transfers delivery information, including date, time, product, quantity and location coordinates, directly to the fuel oil distributor via GPRS in real time.

Once received, this information can be used to: -

- Validate that the correct delivery has been made with reference to quantity and GPS coordinates.
- Generate a customer invoice
- Report activities – audit trail

**Compartment Volume Monitoring** – Load details are entered into the Litre Counter i.e. product name, volume and compartment location. The system will then show numerically and graphically the compartment contents. This volume is re-calculated throughout the delivery process and any retained product, prior to reloading is displayed.

**Temperature Compensation** – The system applies a correction to compensate for the difference in the product volume due to product temperature fluctuations.

**A long range\* hand held Remote Control Unit** with digital volume display, stop/start control and adjustable auto stop feature is optional.

**Two system options** are available; metered hosereel only & metered hose reel and bulk.

\* 50+/- metres dependant on surroundings

The system comprises a lightweight aluminium pneumatically actuated manifold assembly with gas extractor and an electronic litre counter/control unit, meter, pump, printer and product transfer system.

Delivery is initiated and controlled by the litre counter and control unit that receive signals from a pulser unit connected to the meter.

After compartment selection, product is pumped via the manifold (contamination is prevented by pneumatic interlocking). Bulk or hose reel delivery is selected and controlled by a pneumatic three way valve.

The compact gas extractor and two optical probes prevent air passing through the meter.

A ticket printer linked to the litre counter is fitted in the drivers cab.

Pre-made, ADR compliant wiring looms are supplied with the system.

The system has MID (Measuring Instruments Directive) approval and is pre-assembled for simple installation.

### Key features include: -

- **Intuitive Operation**  
Large display with text prompts to guide the operator through the metering process
- **Multi-Fuel Calibration**  
Can be calibrated from the keyboard to meter up to five fuels with different viscosities
- **Simple Installation**  
The gas separator is integral to the manifold reducing both weight and installation time
- **Modular by design**  
The system is modular, allowing for future upgrades.
  - Data Transfer module.
  - Compartment Volume monitoring module.
  - Temperature Compensation module.
  - GPS Coordinates module.
  - Remote Control module.

### Litre Counter/Meter Chamber

The stand-alone DataPlus EPMS litre counter features: -

- Intuitive display, simple to use
- Allows calibration from the keyboard to meter up to five fuels with different viscosities
- Automatic data transfer of delivery information
- The system can be customized with user specific customer numbers

### Manifold with Integrated Gas Separator

A lightweight high quality full flow aluminium manifold, supplied fully assembled comprising: -

- Compact, lightweight gas separator
- Solid state entrained air detectors
- Optional product return
- Interlocked guard bar



### Remote Control Unit

Hand held remote control device, utilising low power radio technology, featuring: -

- Remote stop/start
- Adjustable deadman control
- Product volume display
- Range of up to 100metres

### Pump

Emco Wheaton can often utilise existing pumps for retro-fit purposes or fit a pump of the customer's choice.

This ensures spare parts can be maintained and the product supported at lowest cost to the user.

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