

NEW

AH

MASTERLOAD III™

Avery-Hardoll

Full Featured Electronic Register for Aviation Refuelling Equipment



Benefits

- Increased accuracy with multi-point calibration
- Reliable in harsh environments
- Secure, protected data
- Runs FlightConnect: aviation refueling application
- Proven long service life



MASTERLOAD III™

General Information

MASTERLOAD III™ is a dual microprocessor-based electronic meter register for class 1, div 1, zone 2 hazardous areas. Its primary functions include configuring the meter system to the properties of the metered liquid, interfacing with the electronic components of the meter system, and performing custody transfer actions.

MASTERLOAD III™ is equipped with a large display that employs large fonts for critical information and visual icons that make training and operation easy.

MASTERLOAD III™ covers a full range of networks, allowing simple integration with local and back office software and devices. The encrypted database stores up to 2 years of operating activities and up to 50 days of counting during power-off.

Features

- Metrological data collection
- Volume, flow rate, and other key values visible during delivery
- Inventory tracking
- Deadman control
- Diagnostic error messages
- Multi-point and single-point calibration
- Registers two products simultaneously
- Graphical tickets
- Shift and delivery print tickets
- Delivery quantity and totalizer
- Security settings
- Delivery log (printed tickets and display view)
- Permanent, inerasable database of all the events
- Advanced diagnostic and troubleshooting
- Restore of previous configurations
- Multilanguage support (Cyrillic and Greek included)
- Supports up to three printers
- Clone display available
- Wide range of inputs and outputs
 1. Open collectors pulse output
 2. 26 programmable outputs (0-24 VDC)
 3. 13 total programmable digital inputs
 4. Pump off delay
 5. Preset valve
 6. Pump control
 7. Pulse output
 8. Density
 9. Pressure
 10. Temperature
 11. Electronic air elimination
 12. Electronic temperature volume compensation (ETVC)
- RS232/RS485 communication
- Single or dual channel pulse
- Real-time remote display
- Trace software/hardware upgrade
- Double EMC filter



Specifications

Weight

- 6.2 kg

Display Elements

- White LED backlit.
112x62mm, 240x128 pixel graphic display

Keyboard

- 29 functional keys.
- Weight and measure sealable with internal switch and multilevel password protection.

Temperature Rating

- -25 to 55 °C

Power Supply

- 24 VDC +/- 10%

Communications

- 3 COM
- S232/RS485
- Baud rate 1200 to 57600
- Parity Odd, Even or None
- Stop bits 1 or 2

Inputs

- Pulse type
- single or dual channels (temperature & pressure compensation) Calculation parameters as per relevant API standards.

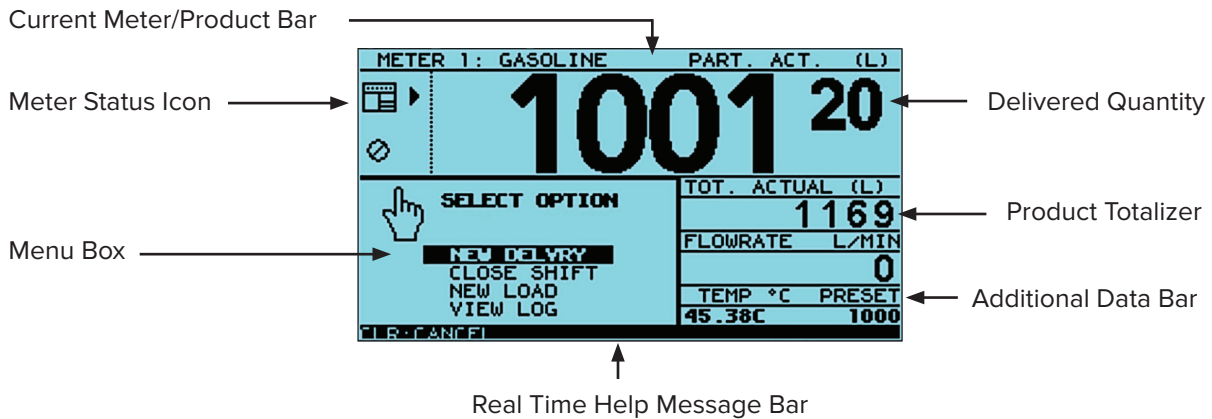
Outputs

- Open collectors pulse output
- Pump off delay
- Preset valve
- Pump
- Pulse output
- 26 programmable outputs
- Solid state 0-24 VDC

Dimensions

- Display: 252 x 191 x 201 mm
- Main Case: 296 x 217 x 168 (204)mm

Screen Map



Standards & Regulations

The TE550 has been designed according to the following regulations:

- EMC 89/336/CEE and successive laws for electromagnetic compatibility
- ATEX 94/9/CE for explosive atmospheres
- OIML R117 recommendation

The regulations that can be applied to the ATEX aspects are:

- EN 50014
- EN 50018
- EN 50020

