



# MARS

## Modular Aircraft Refueling Systems

### RDS (Remote Dispensing) Module Specifications

#### Design

- Modular Solution for FBO Fuel Farms
- Standardized Module Designs
- Fixed or Rotary Wing Aircraft
- Avgas or Jet Fuel

#### Features

- Fuel Transport Unloading
- Refueler Bottom Loading
- Direct-to-Plane Refueling
- Remote Dispensing

#### Quality

- Premium, brand-name components
- Precision-engineered, built and tested by Refueling Specialists
- Over 50 years of industry experience
- Stringent Quality Controls

#### Compliance

- NFPA 30 & 407
- ATA 103
- FAA AC-150/5230-4
- API 1581 & 1529

#### Options

- Aluminum & SS Enclosures
- Self-Serve Card Readers
- Water Defense, Grounding & Overfill Protection Systems
- "Hot Refuel" Pantograph Systems

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1. System Functions: -Direct-to-Plane Refueling at 15-30 USGPM  
 -Fuel flow supplied by PFT Module or Sub Pump
2. Inlet Piping: -1 ½" Globe Valve, Stainless Steel  
 -2 ½" Liquidfilled Pressure Gauge (0-160 psi), installed at hose reel inlet  
 -Stainless Steel piping throughout
3. Filter: -Facet VFG-22-PG Filter/Monitor with water-absorbing filter elements, differential pressure gauge, vent & drain. Rated at 60 USGPM for Avgas; 48 USGPM for Jet Fuel
4. Meter: -1 ½" Liquid Controls M5-A-2 Meter w/large numeral counter. Meter rated at 5-60 USGPM flowrate. Aluminum & stainless steel construction
5. Hose Reel: -Hannay Spring Rewind Hose Reel with aluminum internals, hose rollers & ball stop assembly
6. Hose: -1" x 50 ft. Titan SS-124 Aircraft Refueling Hose, coupled male x male. Tested, serialized & certified per NFPA 407 & API 1529
7. Nozzle: -1 ¼" EBW 495 Overwing Refueling Nozzle w/inlet swivel, strainer, dust cap & ground clip
8. Static Reel: -Hannay GR-75-50 Spring Rewind Static Reel w/50 ft. of plastic-coated cable & ground clip
9. Skid System: -Fabricated Steel, Perimeter Box Frame Skid with structural steel crossmember to support key equipment items. Primed & painted single color
10. Controls: -Explosion-proof Start/Stop Pushbutton Station
11. Options: -Aluminum Cabinet Enclosure w/removable panels  
 -Welded Steel Containment Pan w/drain  
 -60 USGPM Overwing Capability  
 -100 USGPM Underwing Capability