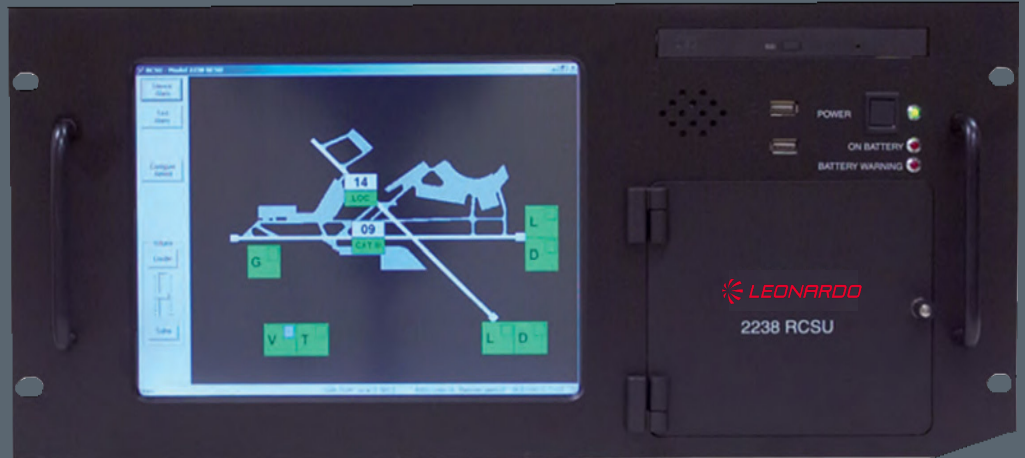


MODEL 2238 / MODEL 2240



2138 RSU



2238 RCSU

Air Traffic Control Systems

MODEL 2238 / MODEL 2240 Remote Control and Status Unit

The Model 2238 / Model 2240 is one of the most advanced remote control and maintenance systems available in the market today.

MODEL 2238 RCSU

The Model 2238 RCSU has the ability to monitor and control all ground navigation equipment, such as ILS, VOR, DME, TACAN, as well as other airport systems. The Model 2238 RCSU combines a fully functional Air Traffic Control tower cab-mounted display system with the most advanced remote maintenance capability, including remote adjustment of ILS parameters not previously available in the industry. Combined with the Remote Status Monitoring System (RSMS) software, the user has the ability to manage an entire network of systems countrywide. Optional Digital Signal Processing (DSP) interface cards allow control and monitoring of legacy tone-based nav aids and equipment provided by other manufacturers. The Model 2238 RCSU was designed to reduce operational costs by improving Air Traffic Controller and maintenance technician efficiency.

The Model 2238 RCSU provides a touch screen display with a color, graphical layout of the airport, which can be either a simple bitmap or one enriched with pertinent runways and taxiways. Superimposed on the display are color coded icons representing navigation aids in their respective locations on the airport.

An audible alarm is triggered in the event of an alarm or alert

condition at any of the navigational aids. This advanced display reduces the controller workload by providing at-a-glance real time status of the associated equipment.

Air Traffic Controllers can also control individual nav aids by touching the appropriate equipment icon on the touch panel screen to display a more detailed status and control panel for that equipment. The controller can easily and securely change the selected approach end of any of the runways.

The Model 2238 RCSU can either be desktop-mounted or installed in a standard 19" rack, occupying 5U of rack space.

ADDITIONAL FEATURES INCLUDE:

- TCP/IP LAN Connectivity
- Single Point RMM Connectivity
- Security password protection
- Map-based graphical user interface
- Built-in UPS

MODEL 2240 RCSU

As an alternative to the Model 2238 RCSU, the Model 2240 RCSU is designed for installations consisting of up to three Nav aid stations. It incorporates an embedded microprocessor and integrated LED status indicators. An external battery unit provides battery-backup operation in the event of an AC power failure. The Model 2240 RCSU is designed for installation in a standard 1U equipment rack panel space, either in a control tower equipment room or in a tower cab. The Model 2240 RCSU supports up to 3 RSUs.



REMOTE STATUS DISPLAY UNIT (RSDU)

The optional Model 2238 Remote Status Display Unit provides the same graphical map-based user interface to the associated navigation equipment as on the Model 2238 RCSU. The RSDU is the preferred interface for ATC situations requiring monitoring of multiple runways and approaches. RSDUs are typically installed at ATC locations, as well as at other points around the airfield requiring at-a-glance status of the associated navigation equipment. Any practical number of RSDUs can be connected to the Model 2238 RCSU over a TCP/IP network connection. Several form factors are available, including large touchscreen LCDs and more compact notebook PC-based systems, each configuration including battery-backed operation.

REMOTE STATUS UNIT (RSU)

The Model 2138 Remote Status Unit displays the summary level status of the equipment being monitored on a small panel suitable for installation in a console in the Control Tower. The RSU is a cost-effective status display panel that can support one or two opposing approaches on a single runway. It is linked to the RCSU through an RS-422 serial communication link, and can optionally be supplied with a battery backup unit.

SPECIFICATIONS

MECHANICAL

Weight:

2238 RCSU:	35 lb. (15.88kg)
2240 RCSU:	4 lb. (1.81 kg)
2238 RSDU:	Varies, depending on form-factor
2138 RSU:	1.75 lb. (0.79 kg)

Dimensions:

2238 RCSU:	19" W x 8.7" H x 15" D (483mm W x 221mm H x 381mm D)
2240 RCSU:	21" W x 1.75" H x 8" D (483mm W x 44.5mm H x 203.2mm D)
2238 RSDU:	Varies, depending on form-factor
2138 RSU:	7.69" W x 5.22" H x 3" D (195mm W x 133mm H x 76mm D)

ENVIRONMENTAL

Operating Temperature:	+10°C to + 50°C
Storage Temperature:	-20°C to +35°C
Relative Humidity:	10 to 80% (non-condensing)
Altitude:	To 15,000 ft MSL (4500 m)

ELECTRICAL

Primary Power

2238 RCSU/RSDU:	120/240 V AC ± 15%, 47-66 Hz, single phase, 350 VA
2240 RCSU:	90 to 264 V AC, 47-63 Hz, single phase, 24 VA
2138 RSU:	90 to 264 V AC, 47-63 Hz, single phase, 30 VA

Standby Power

2238 RCSU/RSDU/2240 RCSU: No-break battery backup system with charger provides 4 hrs operation.

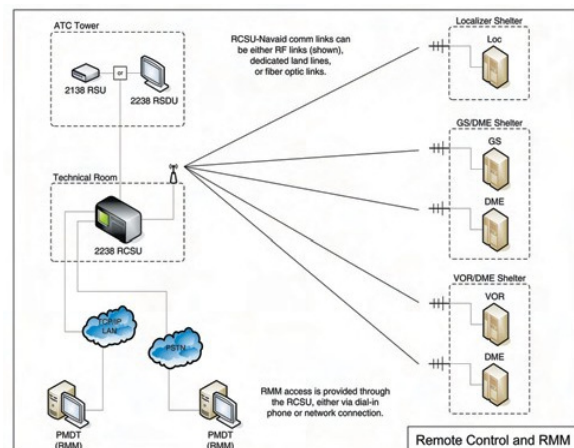
2138 RSU: 8.4 V DC no-break battery backup system with charger provides 1 hour operation.



2238 RSDU



2240 RCSU



For more information please email info@leonardocompany-us.com

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