



The Runway Light Intensity Monitor (RLIM) monitors the light intensity of airport

runway lamps. It is a primary component in Mesotech's Runway Visual Range (RVR) system. The unit automatically senses the light level and transmits the value to the main RVR processor.

One RVR system at an airport can use several RLIMs. Each RLIM can have up to 16 light intensity inputs. Each input will monitor one lamp signal. Each lamp circuit can monitor many runway lamp circuits or many levels of light intensities; however, the typical configuration monitors six light levels on two runways, center and edge lights. Or the unit can be configured to monitor five intensity levels for three runways with one spare input.

The RLIM measures voltage or current on the lamp circuit out on the airfield, or at the lamp control switches in the control tower. The unit reports the lamp intensity to the RVR processor through a serial digital connection or internal modem. The user can set the baud rate and communications parameters. Lamp intensities are reported every five seconds, along with the results from built-in diagnostic tests.

The RLIM has a weatherproof enclosure and can be mounted outdoors or indoors. Cables from the lamps enter the unit's enclosure through watertight cable glands. Each input is optically isolated to 4000 Vrms. The AC mains input connection includes fuses and three stages of lighting protection.

The RLIM is equipped with a serial RS-232 port for maintenance activities. To configure or monitor the RLIM's operation, authorized maintenance personnel can connect to this port using a test instrument or computer.

Technical Specifications

Number of inputs:	Up to 16 channels per unit
Light levels monitored:	1 to 6 levels
Runways monitored:	Up to 3 runways per unit, and multiple units per RVR system
Input Ratings	
Voltage:	32 to 15 AC/DC, 90 to 140 AC/DC, or 180 to 280 AC/DC
Current:	0 to 100 A, passive measurement
Isolation:	Optical to 4000 Vrms
Power input:	110 to 240 VAC, 50/60 Hz. Three stages of transient protection.
Dimensions:	20 cm x 25 cm x 15 cm
Weight:	5.4 kg

Ordering Options

Runway Light Intensity Monitor. Consult the factory for configurations to match your airport's runway lamp circuits.

The Runway Light Intensity Monitor is an excellent choice for aviation use.

