

AWA525

Runway Light Intensity Monitor

The AWA-525 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.

Each AWA-525 unit can have up to 16 light intensity inputs. Several units can be used in one RVR system at the airport. Each input will monitor one lamp signal. It is possible to monitor many runway lamp circuits or many levels of light intensities per lamp circuit. The typical configuration monitors 6 light levels on two runways, center and edge lights. Or the unit can be configured to monitor 5 intensity levels for 3 runways with one spare input.

The AWA-525 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 5 seconds, along with the results from built-in diagnostic tests.

The AWA-525 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 3 stages of lighting protection.

The AWA-525 is equipped with a serial RS-232 port for maintenance activities. Authorized maintenance personnel can connect to this port using a test instrument or computer and configure or monitor the AWA-525's operation.



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 Information

AWA-525 Runway Light Intensity Monitor. Consult the factory for configurations to match your airport's runway lamp circuits.