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METEOROLOGISCHE INSTRUMENTE KG
R. FUESS

RUNWAY VISUAL RANGE RVR - 6000

- ✓ meets or exceeds ICAO recommendations, WMO requirements
- ✓ continues Belfort's reputatation for supierior visibility sensors
- ✓ specifically manufactured for RVR applications
- ✓ latest forward scatter sensor technology
- ✓ compatable with CAT I, II, or IIIB airports

The Belfort RVR system consists of:

- ➢ the model 6000 visibility sensor known worldwide as a standard in visibility measurement
- ➢ the ambient light sensor (ALS)
- ➢ the runway light interface (RWIS)
- ➢ the proprietary RVR software program

The RVR system measures the transparency of the atmosphere and calculates an extension coefficient taking in to affect the ambient light conditions. When the runway light intensity is integrated into the RVR algorithm, runway visual range values are determined.

The Belfort forward scatter visibility sensor provides accurate measurements in all weather conditions, including fog, smoke, heavy precipitation and snow. Adding the high performance of the Model 6000 visibility sensor with the proven RVR algorithms insure the most accurate runway visual range values are reported to the users.

The Model 6000 visibility sensors, used in the RVR system, have been calibrated through a specific chain of standards traceable to a reference "transmissometer". Using this calibration standard ensures that the runway visual range measurements and calculations meet aviation quality standards.

Specifications

Performance

Measurement range (MOR)	:	6 m to 80 km (20 ft to 50 miles)
Accuracy	:	+/- 10% or 3m (10 feet)
Output Intervals	:	10 Sec or 1, 5, 10 minutes
Averaging Intervals	:	3, 5 or 10 minutes
Measurement	:	Meteorological Optical Range (MOR) or Extinction coefficient
Units	:	kilometers or miles
Baud Rate	:	Variable

Principle of Operation

Visibility Sensor	:	Forward Scatter
Light Source	:	Infrared LED
Scatter Angle	:	42°
Communications	:	RS232, RS485, 300-38, 400 Baud

Ambien Light Sensor

Field of view	:	6°
Range	:	2 to 40,000 candelas/m2

Runway Light Interface

Hardware	:	RS232 Relay
Edge Light	:	CAT I, CAT II, and CAT IIIa installations
Centerline Lights	:	CAT IIIb installations
Control	:	RVR Software Control

RVR

Output Intervals	:	10 -120 seconds
Averaging Intervals	:	1, 2, and 10 minutes
Trend	:	1, 2, and 10 minutes
Algorithms:		
Daytime	:	Koschmieder's Law
Nighttime	:	Allard's Law
Reporting Range		
	:	Output per FAA FMH-1 and ICAO Annex 3
Meters	:	0-2000
Feet	:	0-6000

Environmental

Operating	:	-40 °C to + 55 °C (-400 to +1300F)
Approval	:	CE Approved

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