**V- lambda radiation**
The spectral range of the visible light is referred to as V-lambda radiation and corresponds to the sensitivity of the human eye. The measured value is a measure for the perceived brightness. The wavelength range extends from the end of the UV spectrum at 400 nm to the beginning of the IR range at 720 nm with a maximum at 555 nm. The determined illuminance in “LUX” can directly be converted into the irradiance “W/ m²". Measurements in this particular range have a great importance for the workplace design and lighting projects.

**V- lambda radiation sensor FLAD 03 VL1**
V- lambda sensors are used in the field of medical and/or biological research, for weather information and forecasting systems, for climate research, for agriculture, and for the automobile industry respectively for measuring artificial lighting. The spectral sensitivity of the receiver is extremely well adapted to the sensitivity of the human eye and complies with the device class B as per DIN 5032. The measuring head FLAD 03 VL1 has a black, anodized aluminum housing. The measurement is cos corrected. The measuring head is only suitable for indoor usage.

**Technical data**
- **Measuring range V-lambda**: 0.02 lx to 200 klx
- **ALMEMO® measuring ranges**:
  - 0 to 650.00 lx
  - 0 to 6500.0 lx
  - 0 to 65000 lx
  - 0 to 200.00 klx
- **Sensor system**: Si / interf. filter
- **Spectral sensitivity**: 380 nm to 720 nm
- **Maximum spectral sensitivity**: 555 nm
- **Operating temperature**: -20°C to +60°C
- **Signal output**: FC
- **Minimum resolution**: 0.02 lx
- **Power supply**: from ALMEMO® measuring instrument
- **Switch-on time (Duty cycle)**: < 1 s
- **Switch-off time**: < 1 s
- **Mounting**: 2 screws M3
- **Cable passage**: at side / socket
- **Diffuser**: PTFE
- **V-Lambda adaption**: <3%
- **Cos-correction error f2**: < 2.0%
- **Linearity**: < 1 %
- **Absolute error**: < 5 %
- **Weight**: approx. 50 g

**Variants**
V- lambda radiation sensor with a 1.5 m long ALMEMO® connection cable

**Order no.**
FLAD03VL1

Factory calibration KL90xx radiation for sensor (see chapter Calibration certificates)