

Transmissometer. FAC: 1341

CATCODE: 149623

OPR: AFWA/A5/A8, MAJCOM/A3W

OCR: MAJCOM/A6

1.1. **Description.** This system measures and records relative light transmissively through the atmosphere along a given path between a projector and detector. Transmissometers are referred to as telephotometers, transmittance meters, or hazemeters.

1.1.1. A **transmissometer** is an instrument for measuring the extinction coefficient of the atmosphere, and for the determination of visual range. It operates by sending a narrow, collimated beam of energy (usually a laser) through the propagation medium. A narrow field of view receiver at the designated measurement distance determines how much energy is arriving at the detector, and determines the path transmission and/or extinction coefficient. Atmospheric extinction is wavelength dependent phenomenon, but the most common wavelength in use for transmissometers is 550 nm, which is in the middle of the visible waveband, and allows a good approximation of visual range.

1.2. A defined facility standard is not currently available for this CATCODE. By default, all requirements are user justified until a standard is established or adopted.