

View Online at <https://aerobasegroup.com/nsn/6660-01-375-4809>

**End Application:**

Automated surface observing system (asos)

**Unpackaged Unit Length:**

29.100 inches

**Unpackaged Unit Width:**

22.800 inches

**Unpackaged Unit Height:**

16.500 inches

**Component Quantity:**

37

**Component Document Origin:**

Government

**Document Source:**

97384

**Document Type:**

Engineering handbook

**Component Document Page Number:**

9-1

**Package Model Number:**

Ct12k

**Document Identification:**

W/os0321: bgm

**Special Features:**

C/o 2 subassys: 1) optics subassy: transmitter board, receiver board, optics hardware, light monitor board, transmitter/receiver lens, temp compensation transformer, 2 temp control heaters, solar shutter not incl, 7 cables, 4 connectors; 2) electronics subassy: base, power supply housing, board frame, high voltage power supply, processor board, unregulated power supply board, i/o connector board, fiberoptic module, temp sensor, 4 connectors; 116 vac, 45-65 hz, 800 wk; gallium arsenide laser; 904 nm wavelength; pulsed; 40 wpeak, 1.3 x 1.3 mm laser dimensions; focal lg 14.45 in., 4.65 in. Lens dia; lens transmit 90 pct; silicon avalanche photodiode detector; optical: lens distance 12.2 in., 100 ft laser beam entering recvr fov; measurement range: 0-12, 650 ft; mounted on pedestal approximately 23 in. High

**Functional Description:**

Uses invisible laser radiation to detect cloud levels

**Shelf Life:**

N/a

**Unit Of Measure:**

--

**Demilitarization:**

No

**Fiig:**

A23800