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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:

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Demilitarization:

No

Fiig:

A23800