



CMS400 Digital Voice

Cockpit Checklist System

A comprehensive checklist is the best tool to ensure proper aircraft configuration at each phase of flight. Unfortunately, cockpit workload is especially high during takeoffs and landings, not to mention the visual burden of traffic vigilance—just when checklists are most important.

Industry studies show that checklist misuse is a contributing factor in many major accidents. The problem is that other cockpit duties compete with the checklist for the pilot's attention. This makes it difficult to concentrate on reading and performing checklists. The result: omitted items and poor cross-checking.

Heads Up Technologies can help. The CMS-400 adds safety and convenience to your flight operation by managing and presenting your checklist just as another crew member.



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CMS400 Specifications

Manage your checklist with a computer.

Computers never forget, become tired or get distracted. The CMS-400 uses sophisticated microprocessors and digitized human voice to read your customized checklist to you. Each item is spoken clearly and quickly in a challenge-and-response format.

ADV - Enter first category and proceed through the entire checklist. Press and hold to repeat an item. A remotely mounted "ADV" button is recommended.

SKIP - Move an item for later consideration or move past checklist categories

JUMP - Move instantly to predetermined checklist categories.

EXIT - Reset a checklist category and start again.

BRT - Adjust brightness of the LED display.

You're in total command.

The CMS-400 speaks only when you want it to speak. Press the remotely located "advance" button and the computer reads another item. It's that simple. One button can take you through the entire checklist from start to finish!

Checklist changes are a snap.

Checklist changes are easy with the data cartridge. Just FAX or mail your changes to us, and we'll send you a new cartridge.

Options:

AUTOBRIEF -- interface allows automatic control of the Heads Up Technologies' Passenger Briefing Systems.

Emergency Checklists - program capability for up to five (5) emergency categories.

Interface to other systems - please contact factory

Message Capacity

- Number of Languages 1
- Number of Line Items 500

Digital Audio - Digitized Human Voice

- Sample Rate 10Khz
- Sample Size 8 bit
- Audio Outputs 8 ohms (Speakers) ohms (100mV)

600

Electrical

- Microprocessor Based 8 bit/10Mhz
- Memory Type EPROM
- Voltage (nominal) 28Vdc
- Current (nominal) 0.5 Amp
- Panel Backlighting 5 or 28 Volts AC/DC

Physical

- Height 1.88" (4.76 cm)
- Width 5.75" (14.6 cm)
- Depth 7.83" (19.89 cm)
- Total Weight 1.9 lbs (709.16 g)
- Mounting Standard DZUS
- Bezel Color Gray or Black
- Display Type LED
- Display Size Two (2) Lines; Sixteen (16) characters per line

Environmental

- Storage Temperature -67F to +176F (-55C to +80C)
- Operating Temperature -4F to +158F (-20C to +70C)

Testing / Certification

- Hardware - Environmental 14 CFR PART 21
- Software RTCA DO-160D
- RTCA DO-178A



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